

COPYRIGHT INFORMATION

Copyright © 1995 and 1996 by The Document Company Xerox. All rights reserved. No part of this publication may be transmitted, transcribed, reproduced, stored in any retrieval system or translated into any language or computer language in any form or by any means, mechanical, electronic, magnetic, optical, chemical, manual, or otherwise, without the prior written consent of Xerox Desktop Document Systems Division, 9 Centennial Drive, Peabody, Massachusetts 01960. Printed in the United States of America.

The software described in this book is furnished under license and may be used or copied only in accordance with the terms of such license.

IMPORTANT NOTICE

Xerox provides this publication "as is" without warranty of any kind, either express or implied, including but not limited to the implied warranties of merchantability or fitness for a particular purpose. Some states or jurisdictions do not allow disclaimer of express or implied warranties in certain transactions; therefore, this statement may not apply to you. Xerox reserves the right to revise this publication and to make changes from time to time in the content hereof without obligation of Xerox to notify any person of such revision or changes.

TRADEMARKS AND CREDITS

TextBridge is a registered trademark, and *Smart Zones*, *Instant Access OCR*, *Custom Proof*, and *In-Place Proofing* are trademarks of Xerox.

Excel, *Word*, and *Windows* are trademarks of Microsoft Corp.

WordPerfect is a registered trademark of WordPerfect Corp.

Other terms used in this manual are the trademarks of their respective holders.

Portions of this product copyright © 1990, 1991, 1992, 1993, 1994, 1995, and 1996, Pixel Translations, Inc.

Portions of this product copyright © 1994, 1995, 1996, Mastersoft Corp.

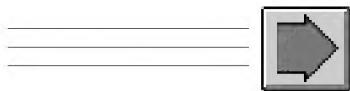
This manual was designed, written, and illustrated by Jim Cahill.

© THE DOCUMENT COMPANY XEROX

Desktop Document Systems Division
9 Centennial Drive
Peabody, Massachusetts 01960
(508)–977–2000 Customer Support: (508) 977–0764

TextBridge Professional Edition: Getting Started

Part Number 00–08554–00
March 1996



QUICK START

To get going quickly with **TextBridge™ Pro 96 for Windows™ 95**, follow each section below.

- ◆ Installing TextBridge Pro 96 for Windows 95
- ◆ Creating a shortcut for TextBridge Pro on the desktop
- ◆ Starting TextBridge Pro for Windows 95
- ◆ Where to go from here

INSTALLING TEXTBRIDGE PRO 96 FOR WINDOWS 95

Follow the steps below to set up TextBridge Pro.

1. **If you plan to use a scanner with TextBridge Pro, install and test your scanner hardware.**
Refer to your scanner documentation for complete information.
2. **To install TextBridge Pro software, insert the TextBridge Pro CD into your CD-ROM drive.**
3. **From the Windows 95 task bar, click the Start button, then click Run.**

Next, run the TextBridge SETUP command as follows, depending on the letter that represents your CD-ROM drive:

d:\setup ↵ or e:\setup ↵

4. **Accept Full installation (software and scanner), then click Continue.**

- 5. Accept the default language pack, or choose additional language packs to be installed by clicking on their checkboxes, then click Continue.**
- 6. Accept the default installation directory, or type in a new installation directory for TextBridge Pro, then click Continue.**

After you click Continue, the setup program installs TextBridge Pro software files. Then the setup program displays a dialog that lets you select the scanner driver type.

- 7. Perform scanner driver installation.**

Select ACCUPAGE, ISIS, or TWAIN for the type of driver, then click Continue.

Note	If TextBridge Pro provides an ISIS driver for your scanner, or if your scanner supports HP AccuPage, it is strongly recommended that you use this driver instead of the TWAIN driver.
-------------	---

Complete any subsequent dialogs that appear, until the dialog with the Test/Setup/End buttons is displayed.

- 8. Test the scanner driver installation.**

Insert a page in the scanner, then click the Test button. The scanner scans the page, which appears in a Scan Test window.

Click Accept. The Test/Setup/End dialog reappears.

- 9. If necessary, click End to complete the installation.**

- 10. If TextBridge Pro comes with electronic registration, click Register.**

Complete the entries in the Registration Info dialog. Then click Done. Next, complete your registration by clicking Send or Print, as applicable.

You are now ready to use TextBridge Pro.

CREATING A SHORTCUT FOR TEXTBRIDGE PRO ON THE DESKTOP

Follow the steps below to create a shortcut icon on the desktop for TextBridge Pro. A shortcut gives you a quick and easy way to start TextBridge Pro.

This procedure assumes you installed TextBridge Pro in the default directory.

- 1. With the right mouse button, click the Start button on the Windows taskbar.**

This displays a short pop-up menu.

- 2. Choose Explore from the pop-up menu.**

This displays Windows Explorer.

- 3. From the drive in which you installed TextBridge Pro (usually, C:), open the folder in which you installed TextBridge Pro (usually, C:\Program Files\TextBridge Pro 96\bin).**

To do this, double-click the Program Files folder. Next, double-click the TextBridge Pro 96 folder. Then double-click the Bin folder.

- 4. Select the Tb96 icon by clicking it once.**

- 5. Choose Create Shortcut from the File Menu.**

This creates a Shortcut to Tb96 icon.

- 6. Drag the Shortcut to Tb96 icon to your desktop.**



Tb96



Shortcut to
Tb96

STARTING TEXTBRIDGE PRO FOR WINDOWS 95

If you created a shortcut on the desktop, simply double-click the Shortcut to Tb96 icon on the desktop to start TextBridge Pro.



Otherwise, click the Start button on the taskbar, point to Programs, point to the TextBridge Pro 96 folder, and click the TextBridge Pro 96 icon.



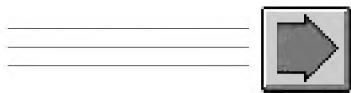
WHERE TO GO FROM HERE



With TextBridge Pro 96 fully installed, you are ready to begin using the product.

Refer to Chapter 2 of this guide to install the **In-Place Proofreader™** in Word for Windows 6.0a (and later) and WordPerfect for Windows 6.1 (and later).

In addition, refer to Chapter 3 of this guide. It provides step-by-step tutorial sessions designed to help you learn some of the important features of TextBridge Pro.



CONTENTS

1 INTRODUCTION

Related Publications	1–2
TextBridge Pro Programs	1–2
What Comes with TextBridge Pro	1–4
System Requirements	1–5
Where to Go From Here	1–5

2 INSTALLATION

System Configuration and Performance	2–1
Installing and Testing Your Scanner	2–3
Basic scanner installation steps	2–4
A note about hand scanners	2–4
Installing and Testing TextBridge Pro Software	2–5
Run the software setup program	2–6
Completing electronic registration	2–10
Install and test the AccuPage driver	2–12
Install and test an ISIS driver	2–14
Install and test a TWAIN driver	2–16
Installing the TextBridge In-Place Proofreader	2–17
Installing the In-Place Proofreader in Word	2–18
Installing the In-Place Proofreader in WordPerfect	2–19
Where to Go From Here	2–20
Uninstalling TextBridge Pro	2–21

3 TUTORIALS

TextBridge Pro Interface	3–2
Sample Documents	3–4
Session 1: Automatic Operation	3–6
Session 2: Capturing Parts of a Document	3–7
Session 3: Interactive Training	3–11
Session 4: Instant-Access OCR	3–14
Session 5: Document Recomposition	3–17
Notes About Document Recomposition	3–18
Session 6: In-Place Proofing	3–20
Where to Go From Here	3–23

A TROUBLESHOOTING AND ERROR CORRECTION

What To Do if You Encounter a Problem	A–2
Troubleshooting Common Problems	A–3
ISIS scanner problems	A–3
TWAIN scanner notes and troubleshooting	A–5
Problems setting up the scanner	A–6
TWAIN native user interface	A–7
Adjusting the brightness range for TWAIN devices ..	A–9
Inverted page images	A–11
Out of memory errors	A–12
Resolutions over 900 dpi	A–14
Color or grayscale images	A–15
TWAIN source driver errors	A–15
Virtual memory problems	A–15
Correcting General Error Conditions	A–17

B SAMPLE DOCUMENTS

Markplan.tif	B-2
Zonepic.tif	B-3
Plexis.tif	B-4
Resume.tif	B-5
3col.tif	B-6

INDEX



INTRODUCTION

Welcome to Xerox's **TextBridge™ Pro 96**, the premier OCR software for Microsoft Windows™ 95 and Windows NT.

OCR stands for **optical character recognition**, the capability to recognize paper documents and output formatted, fully-editable data (text and graphics) to your word processor format. OCR can also recognize on-line page images from fax modems, scanners, and other sources. In addition to OCR, TextBridge Pro offers advanced capabilities such as **interactive training**; full **document recomposition**; and **in-place proofing** tools for your word processor.

This manual describes how to install TextBridge Pro software, and get started using the program. Specifically:

- ◆ This chapter lists related publications. It also describes product features, what comes with TextBridge Pro, and system requirements to run the program.
- ◆ Chapter 2, "Installation," provides step-by-step instructions to install TextBridge Pro software and link it with your scanner or other input device. **If you want to get started immediately, go directly to this chapter for full installation instructions.**
- ◆ Chapter 3, "Tutorials," walks you through several practice sessions designed to provide a firm basis on which to learn and use the important features of TextBridge Pro.
- ◆ Appendix A, "Troubleshooting and Error Correction," describes possible problems that you can encounter during TextBridge Pro installation, system configuration, and operation. It recommends a solution for each of the problems. It also lists the error messages that can be generated during TextBridge Pro operation and suggests ways for correcting the errors.
- ◆ Appendix B, "Sample Documents," describes the on-line sample documents that are provided with TextBridge Pro.

RELATED PUBLICATIONS

In addition to this manual, TextBridge Pro includes the following publications, which provide full details about the program:

- ◆ *TextBridge Pro 96 On-line Release Notes*: After you install TextBridge Pro, following the steps in Chapter 2 of this manual, **read the on-line release notes first**. These provide the most up-to-date information about TextBridge Pro.
- ◆ *TextBridge Pro 96 Quick Card*: Refer to this four-panel card for an illustrated summary of TextBridge Pro operation.
- ◆ *TextBridge Pro 96 On-line Help*: As you use TextBridge Pro, should any questions arise, refer to the on-line hypertext Help system.
- ◆ *TextBridge on-line electronic documentation*: This includes electronic versions of the Quick Card and this Getting Started Guide in Adobe Acrobat format. The documentation resides in the directory `Tbprodoc` on the CD-ROM. Please refer to the `README` file in that directory for information about using the on-line documentation.

TEXTBRIDGE PRO PROGRAMS

TextBridge Pro combines Xerox's industry-leading OCR with a simple Windows-based interface.

Figure 1–1 shows the TextBridge Pro main window, which you can access as a standalone program or directly from other text applications.

You can run TextBridge Pro 96, the **main application**, directly from Windows 95 or NT. For instance, in Windows 95, click Start, point to Programs, point to the TextBridge Pro 96 folder, and click the TextBridge Pro 96 icon.

To run TextBridge Pro directly from within your Windows-based word processing, spreadsheet, or other text application, use **TextBridge Instant Access OCR™**.

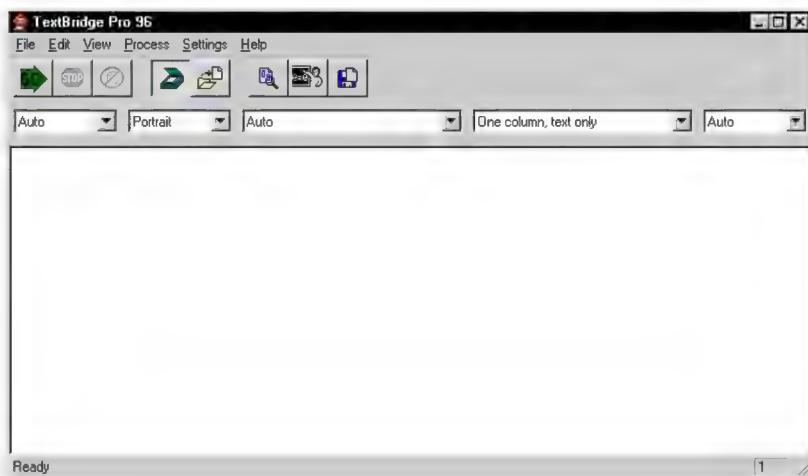


Figure 1-1. Main window

For the ultimate in productivity, TextBridge Instant Access OCR provides all the capabilities of the main application, and pastes recognized data directly into your application's open document.

TextBridge Pro also supports Microsoft's **OLE 2.0** for drag-and-drop operations from other OLE 2.0 applications.

Thus, you can drag an image from another application, for example, a fax viewer, and have TextBridge Pro recognize the image and output electronic text to your word processor.

If your fax program or other imaging application does not support OLE 2.0, you can copy an image from such an application and paste it into TextBridge Pro for processing.

TextBridge Pro can convert recognized text to a number of word processing, spreadsheet, database, and other text formats.

Note For more information about these features, please refer to the on-line help.

WHAT COMES WITH TEXTBRIDGE PRO

TextBridge Pro is provided on one CD-ROM. The CD-ROM includes software programs and libraries, selected scanner drivers, language packs, sample page image files, and on-line release notes, Help, and electronic documentation.

The CD-ROM also includes the SoftQuad HoTMetal Light 2.0 HTML editor, which lets you edit HTML files produced by TextBridge Pro.

The product also includes this Getting Started guide, a quick-reference card, and a software registration card.

Note Be sure to fill out the software registration card, as it entitles you to technical support, and assures that you are kept up to date on new software releases.

If any piece is missing from your TextBridge Pro package, call your authorized Xerox dealer or reseller. If you are unable to solve the problem, you can call Xerox directly.

For information about contacting Xerox, refer to the back cover of this manual.

SYSTEM REQUIREMENTS

To install and run TextBridge Pro 96, your Windows-compatible PC must be equipped with the following:

- ◆ an Intel (or compatible) 80386, 80486, or Pentium™ microprocessor
- ◆ VGA, SVGA, or Multi-sync color monitor
- ◆ eight megabytes (8Mb) of random access memory (RAM)
- ◆ 8Mb to 16Mb of **permanent virtual memory**; 16Mb is recommended
 - ☞ For information about permanent virtual memory, refer to Appendix A of this guide, or to the Microsoft® Windows™ 95 or Windows NT documentation from Microsoft Corporation.
- ◆ Microsoft Windows™ 95 or Windows NT
- ◆ a hard disk with a minimum of 9Mb of free space in which to install TextBridge Pro; the 9Mb minimum disk space requirement enables installation of all TextBridge Pro application software and one language pack. Please allow 700Kb for each additional language pack you intend to install.

WHERE TO GO FROM HERE



Please proceed to Chapter 2 of this booklet for instructions to install TextBridge Pro software.

If you run into any problems installing TextBridge Pro, refer to Appendix A, which provides troubleshooting tips.



INSTALLATION

This chapter describes the TextBridge Pro 96 software installation and setup procedures. Specifically, it covers these topics:

- ◆ System configuration and performance
- ◆ Installing and testing your scanner or other device
- ◆ Installing the TextBridge In-Place Proofreader
- ◆ Uninstalling TextBridge Pro

It is recommended that you read through the first two sections before proceeding with software installation. However, if you are ready to begin software installation, please turn to page 5.

SYSTEM CONFIGURATION AND PERFORMANCE

TextBridge Pro 96 operates under Windows 95 and Windows NT. Thus, your PC must have at least an Intel 80386 microprocessor.

Also, to run TextBridge Pro, your PC must have at least **eight megabytes** (8Mb) of memory (RAM) and at least **eight megabytes** (8Mb) of **virtual memory** (swap space on your hard disk). Although Windows 95 manages virtual memory, you need to make sure that your hard drive has enough free space to store the swap space that TextBridge Pro requires.

Note Refer to Appendix A of this manual or to Microsoft® Windows™ documentation for more information about virtual memory.

If you regularly intend to scan multiple-column or landscape pages of text, pages with complex layouts, or large image files, your PC should have 12 to 16Mb of RAM and 16Mb of virtual memory.

With 8Mb of memory, the minimum requirement, TextBridge Pro is more likely to use virtual memory. If you try to run TextBridge Pro with less memory, the program informs you that there is:

Not enough memory to start ICR engine.

In general, the more RAM that is available when you use TextBridge Pro, the less swapping to disk will be required during operation. As a rule of thumb, your system should have twice as much virtual memory as RAM.

Regardless of your RAM and virtual memory, a number of other system configuration choices can affect the availability of memory to TextBridge Pro, and thus can affect performance.

Following is a list of items that can affect TextBridge Pro performance:

◆ **RAM disks**

If you have set up your system to use part of your extended memory as temporary file storage, called a RAM disk, this subtracts from available memory.

◆ **TSR (terminate-and-stay-resident) programs**

Some programs are designed to automatically load into memory when you start your system, or to stay in memory even after you exit them. These programs also affect the memory available to TextBridge Pro.

◆ **Expanded Memory Drivers**

These are programs that use extended memory as expanded memory (memory used by the operating system), for example, a Windows driver.

◆ Other Drivers

These are programs that provide some type of system control, for example, a network driver.

If you find that TextBridge Pro's performance seems slow, check to see if your system is configured with any of these devices. If there are one or more of these devices that you can do without, remove them, one by one, to improve performance.

INSTALLING AND TESTING YOUR SCANNER

Using built-in **ISIS** drivers provided by Pixel Translations Inc., TextBridge Pro works with many popular desktop scanners.

TextBridge Pro also fully supports **AccuPage 2.0**, a technology developed and licensed by Hewlett-Packard that improves the combined performance of HP ScanJet™ scanners and TextBridge Pro.

In addition, with its support of the **TWAIN** standard, TextBridge Pro works with virtually any fully TWAIN-compliant device that provides a binary image in a supported size and resolution.

Note The full list of scanners supported by TextBridge Pro is always growing. Check the on-line *Release Notes* to find the latest list of supported scanners. If your scanner is not in this list, call your authorized Xerox reseller, or call Xerox directly.

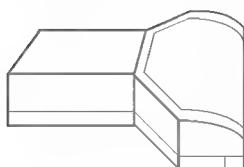
Scanners generally require a system-level driver or a TWAIN source driver, which is provided by the scanner or interface card manufacturer. **Consult the scanner documentation for details about installing your scanner, interface card, and driver.**

Basic scanner installation steps

The basic steps for installing a scanner are to:

1. Install the correct scanner interface card (if one is necessary) in the PC bus.
2. Hook up the scanner to the interface card (or with some devices, to the serial port) with the correct cable, and power up the scanner and the PC.
3. Install the system-level scanner driver (.SYS) file, or TWAIN source driver on your PC hard disk, as directed by the scanner documentation.
4. Test the scanner using software tools provided by the manufacturer. After the scanner is functioning, go on to install TextBridge Pro software.
☞ If your scanner runs independently of TextBridge Pro, you can be sure that it is functioning correctly. Setting it up to run with TextBridge Pro should then be a simple matter.

A note about hand scanners

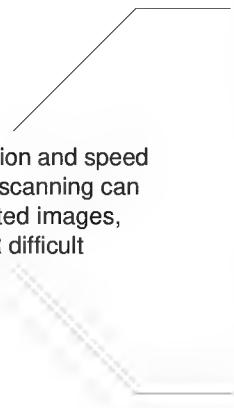


A number of hand scanners are available on the market at a relatively low cost. Many hand scanners are provided with a TWAIN source driver, and thus can work with TextBridge Pro.

Hand scanners can be used occasionally to scan in small blocks of text, but if you are often scanning a full page or more, consider upgrading to a sheet-fed or flatbed scanner.

With hand scanners, you must take great care in providing a usable image to OCR. Hand-scanned images often are distorted, skewed, or otherwise degraded (Figure 2–1). This can cause OCR to produce an unacceptable number of recognition errors.

In addition, the **auto-stitching** software included with some hand scanners rarely provides a suitable image for OCR.



Irregular motion and speed
during hand scanning can
cause distorted images,
making OCR difficult

Dulcimer Polytechnic Institute (DPI)
States. Its unique undergraduate pro

Dulcimer Polytechn
States. Its unique undergrada

Figure 2-1. Distorted images from a hand scanner

INSTALLING AND TESTING TEXTBRIDGE PRO SOFTWARE

After you have performed the hardware and driver installation, you are ready to install TextBridge Pro software and test it with your scanner or other image capture device. This section provides procedures to:

- ◆ run the software setup program
- ◆ complete electronic registration
- ◆ install and test the AccuPage driver
- ◆ install and test an ISIS driver
- ◆ install and test a TWAIN driver

Note If you are **not** using TextBridge Pro with a supported scanner, you can run the software setup program and ignore the other subsections listed above. For example, you might want to use TextBridge Pro only to recognize image files produced by your fax modem.

Run the software setup program

To install TextBridge Pro 96 for Windows 95, use the following procedure:

- 1. Insert the TextBridge Pro CD into your CD-ROM drive.**
- 2. From the Windows taskbar, click the Start button, then click Run.**

Next, run the TextBridge SETUP command as follows, depending on the letter that represents your CD-ROM drive:

d:\setup ↵ or e:\setup ↵

An initialization message appears, followed by the TextBridge Pro Welcome dialog (Figure 2–2).



Figure 2–2. Welcome (main setup) dialog

- 3. Select Full installation (software and scanner), or Software installation if you are only installing software, then click Continue.**

The Installable Language Packs dialog now appears, enabling you to choose the OCR **language packs** you want to install.

- ☞ You **must** select at least one language pack in order for TextBridge Pro to perform OCR.

4. Choose each language pack to be installed by clicking on its checkbox, then click Continue.

- ☞ TextBridge Pro supports OCR of documents printed in up to 11 different languages depending on in which country you purchased the program. Allow approximately 700Kb of hard disk space for each language pack you intend to install.

Next, the setup program displays the Destination Directory dialog displaying a default installation directory on your hard disk, which is usually:

C:\Program Files\TextBridge Pro 96

5. Accept the default installation directory, or type in a new installation directory for TextBridge Pro, then click Continue.

After you click Continue, the setup program begins installing TextBridge Pro software files, as indicated by a progress meter on the screen. The setup program decompresses and copies files to your hard disk.

The setup program proceeds differently based on the type of installation you selected in the Welcome dialog (refer to Figure 2–2).

If you selected Full installation, the setup program now displays a dialog to select the scanner driver type to link to TextBridge Pro (Figure 2–3). Proceed to Step 6.

If you selected Software installation, and your version of TextBridge Pro has built-in electronic registration, the Electronic Registration dialog appears. Proceed to Step 7. If your copy of TextBridge Pro does not have built-in electronic registration, installation is now complete.

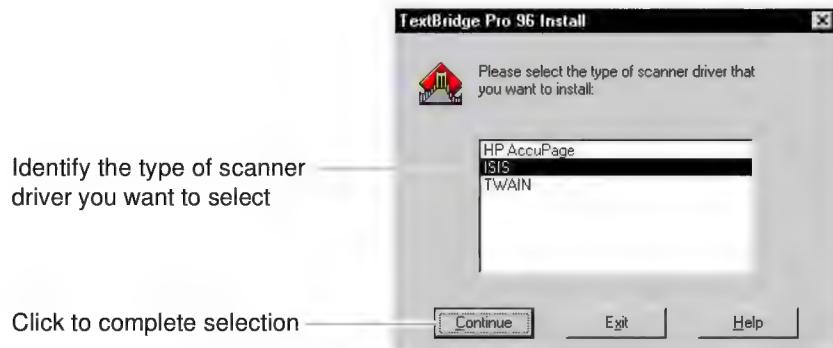


Figure 2-3. Select Scanner / Source dialog

6. Identify and test your scanner driver.

From the Select Scanner/Source dialog, choose the type of driver you want to install—AccuPage, ISIS, or TWAIN—then click Continue.

Note If TextBridge Pro provides an ISIS driver for your scanner, or if your scanner supports HP AccuPage, it is strongly recommended that you use this driver instead of the TWAIN driver.

If you have a Hewlett Packard ScanJet scanner, and you select HP AccuPage, refer to the subsection entitled, “Install and test an AccuPage driver,” for more detail.

If your scanner is supported directly by TextBridge Pro with an ISIS driver, refer to the subsection entitled, “Install and test an ISIS driver.”

If you selected TWAIN, refer to the subsection entitled, “Install and test a TWAIN driver.”

After you complete the steps to install and test your driver, return to Step 7 of this procedure. If you have trouble getting your scanner to run with TextBridge Pro, please refer to Appendix A of this booklet for troubleshooting information.

If your version of TextBridge Pro has built-in electronic registration, the Electronic Registration dialog appears with two buttons—**Register** and **Cancel**.

If your copy of TextBridge Pro does not have built-in electronic registration, installation is now complete.

7. Complete the electronic registration.

Refer to the next subsection, “Completing electronic registration,” for information.

After you complete the previous steps, you can access the TextBridge Pro 96 folder from the Programs menu. To do this, click the Start button on the taskbar, point to Programs, then point to the TextBridge Pro 96 folder (Figure 2–4).

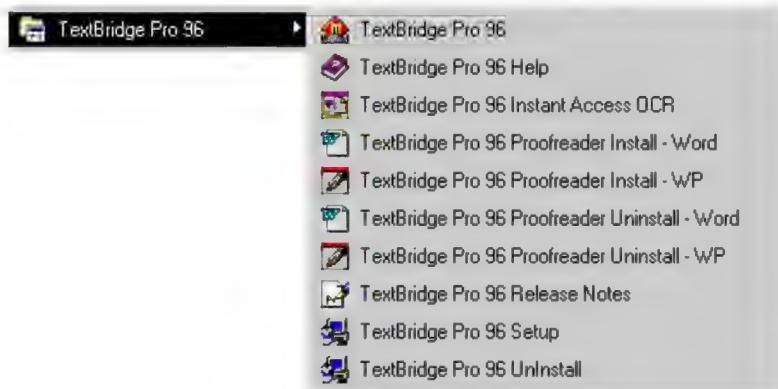


Figure 2-4. *TextBridge Pro 96 folder and icons*

As soon as possible, you should register your TextBridge Pro software. This will assure that you have the latest information on software updates and access to full customer support.

If you have a StartUp folder in the Programs menu, the setup program also places a copy of the Instant Access OCR icon there. This automatically runs Instant Access OCR every time you start Windows 95.

You can now go on to install the TextBridge In-Place Proofreader, or begin using TextBridge Pro software.

For more information about using TextBridge Pro, refer to Chapter 3 of this manual, which provides a set of exercises to help you learn the application. You can also refer to the TextBridge Pro on-line Help for detailed reference information. For a quick start guide, refer to the *Quick Card*.

Completing electronic registration

If your version of TextBridge Pro has built-in electronic registration, the Electronic Registration dialog appears with two buttons—**Register** and **Cancel**.

Complete the following steps:

1. Click the **Register** button.

The setup program now displays an electronic registration dialog (Figure 2–5).

Enter appropriate date into each field; use the TAB key to move to the next field

Click when you are finished

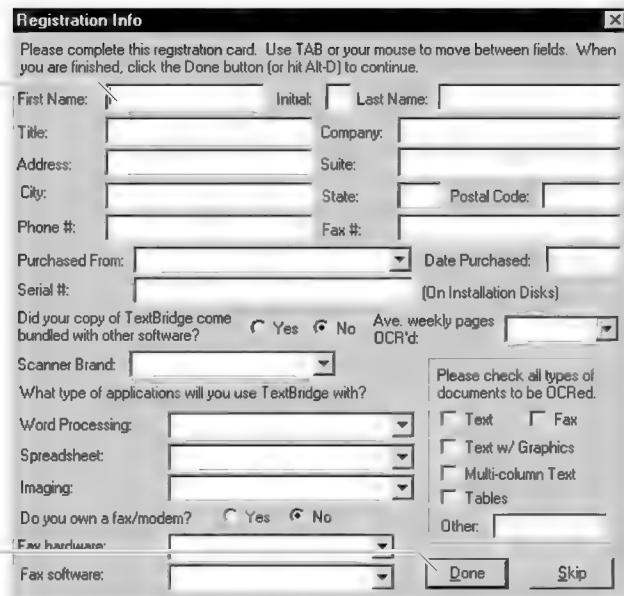


Figure 2–5. Electronic registration dialog

2. Complete all the fields in the registration dialog, then click Done.

Another dialog appears with instructions for completing the registration procedure (Figure 2–6).

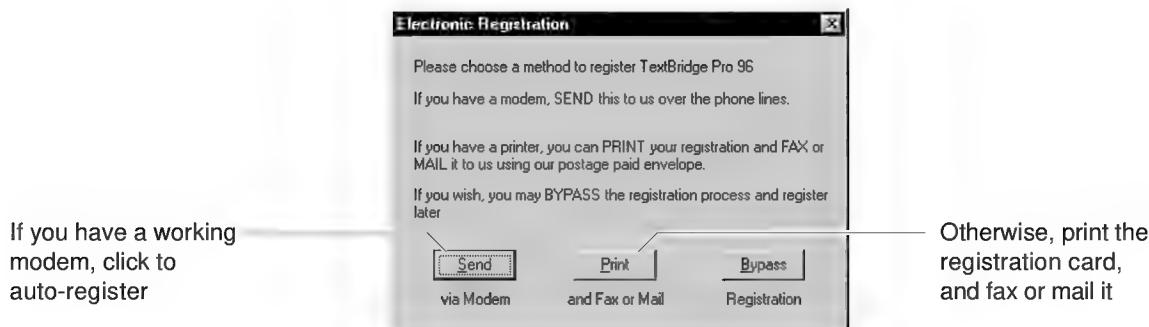


Figure 2–6. Second registration dialog

3. Complete the registration procedure.

If you have a modem connected to your PC and powered on, you can click the **Send** button to automatically send your registration, toll-free. If you click Send, another dialog will appear requesting some additional information about your phone line. Continue as instructed.

Otherwise, click **Print** to print out a paper copy of the registration that you can fax or mail to Xerox. (Click **Bypass** if you are not ready to send or print the registration.)

Important As soon as possible, send the registration information to Xerox. As a registered user, you will be eligible for free customer support and other Xerox services.

When you are done with the registration dialog, installation is complete. For details about starting TextBridge Pro, refer to the information after Step 7 of the earlier subsection, “Run the software setup program.”

Install and test the AccuPage driver

TextBridge Pro includes the necessary files to support HP AccuPage 2.0 for use with your ScanJet™ scanner. For OCR purposes, TextBridge Pro supports AccuPage's auto-brightness and small text features.

To install and test the AccuPage driver:

- 1. From the Select Scanner/Source dialog (refer to Figure 2–3), select HP AccuPage and click Continue.**

The setup program loads the necessary AccuPage files, then displays a dialog to let you test the scanner (Figure 2–7).



Figure 2–7. Test / End Setup dialog

- 2. Place a page in your scanner, then click the Test button.**

If all is well, the scanner begins scanning the page. The AccuPage 2.0 program icon also appears momentarily on your Windows desktop. When scanning is completed, TextBridge Pro displays the page in the Scan Test window (Figure 2–8).

If the test fails, click Reset to return to the Select Scanner/Source dialog, and retry linking your scanner driver with TextBridge Pro, and re-testing the link.

If the test still fails, check all hardware and try again. Refer to Appendix A of this booklet for troubleshooting information.

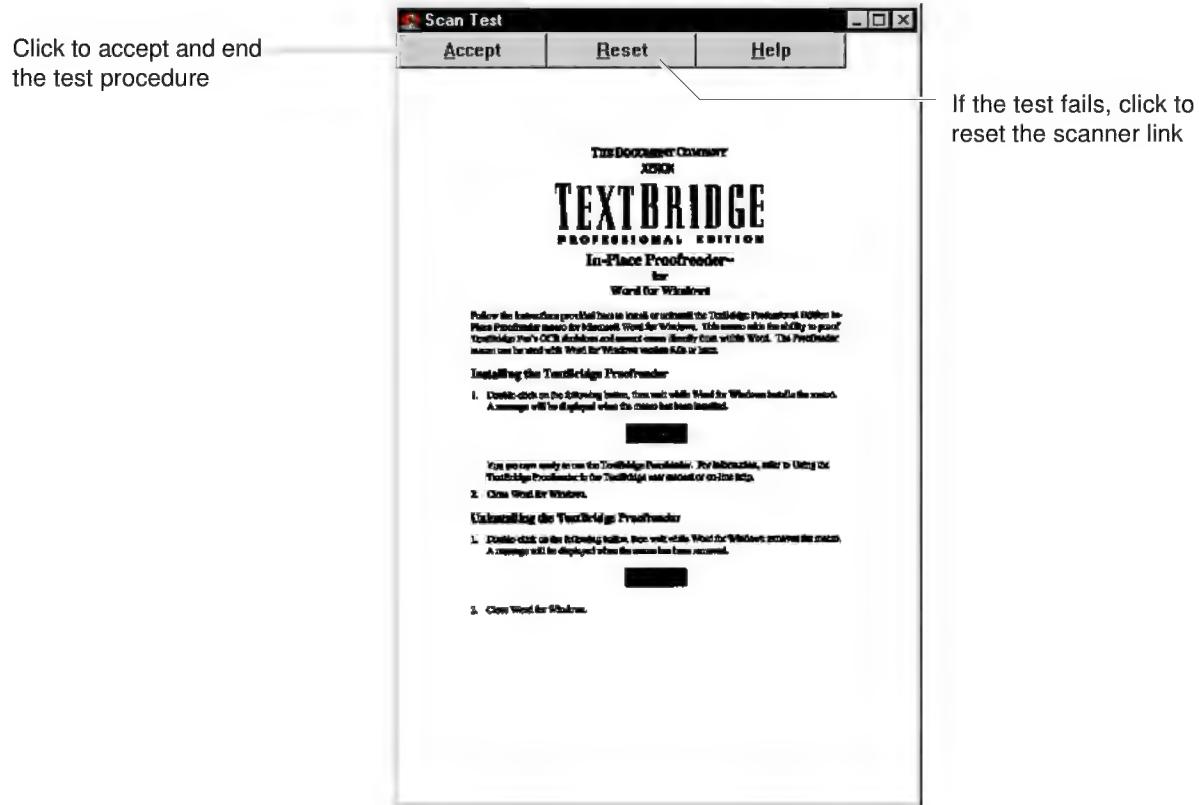


Figure 2-8. Scan Test window

- 3. Click Accept in the Scan Test window.**
- 4. Complete the setup procedure.**

Proceed from Step 7 of the procedure in an earlier subsection, “Run the software setup program.”

Install and test an ISIS driver

TextBridge Pro includes a number of ISIS scanner drivers from Pixel Translations, Inc. These drivers support many of the most popular desktop scanners available today.

To install an ISIS driver:

- 1. From the Select Scanner/Source dialog, select ISIS and click Continue.**

The Scanner Selection dialog is displayed (Figure 2–9). All ISIS scanner drivers provided with TextBridge Pro are displayed in a scrolling list.

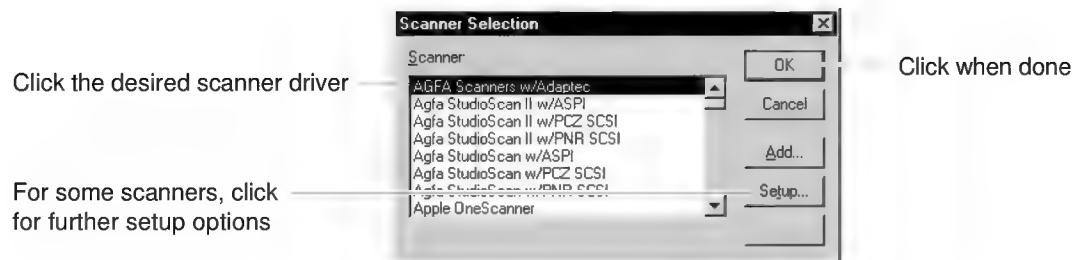


Figure 2–9. ISIS Scanner Selection dialog

- 2. Locate the driver for your scanner, and highlight it.**
- 3. If necessary, click Setup to further define your scanner configuration for TextBridge Pro.**

For some scanners, a dialog appears enabling you to define settings such as Port Address, SCSI ID Number, Transfer Mode, Scanning Speed, and so on.

For other scanners, a dialog appears indicating simply that:

This scanner's configuration is set using the system-level driver.

If applicable, specify appropriate settings for your scanner configuration. Refer to your scanner or interface card documentation for details about scanner configuration settings.

When you are finished specifying scanner configuration settings, click OK to save the new settings and close the scanner dialog.

4. Click OK in the Scanner Selection dialog.

The setup program now displays a dialog to let you test the scanner (refer to Figure 2–7).

5. Place a page in your scanner, then click the Test button.

If all is well, the scanner begins scanning the page. When scanning is completed, TextBridge Pro displays the page in the Scan Test window (refer to Figure 2–8).

If the test fails, click Reset to return to the Select Scanner/Source dialog, and retry linking your scanner driver with TextBridge Pro, and re-testing the link.

If the test still fails, check all hardware and try again. Refer to Appendix A of this booklet for troubleshooting information.

6. Click Accept in the Scan Test window.

7. Complete the setup procedure.

Proceed from Step 7 of the procedure in the earlier section, “Run the software setup program.”

Install and test a TWAIN driver

TextBridge Pro supports scanners with fully TWAIN-compliant source drivers. The TWAIN standard includes an applications programmer's interface for the development of scanner drivers, and is fast becoming the industry standard.

To install a TWAIN driver:

1. **From the Select Scanner/Source dialog, select TWAIN and click Continue.**

The Select Source dialog is displayed (Figure 2–10). All TWAIN source drivers currently available from Windows are displayed.

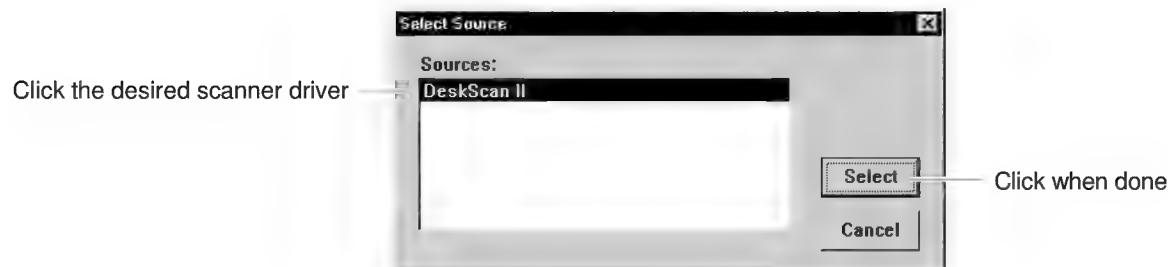


Figure 2–10. TWAIN Select Source dialog

2. **In the Select Source dialog, highlight the TWAIN source driver for your scanner, then click Select.**

The setup program now displays a dialog to let you test the scanner (refer to Figure 2–7).

3. **Place a page in your scanner, then click the Test button.**

If all is well, the TWAIN source driver's **native user interface** now appears.

Refer to your scanner documentation for information about using the native user interface to control your scanner.

After you scan a page and dismiss the native user interface, TextBridge Pro displays the page in the Scan Test window (refer to Figure 2–8).

If the test fails, click Reset to return to the Select Scanner/Source dialog, and retry linking your scanner driver with TextBridge Pro, and re-testing the link.

If the test still fails, check all hardware and try again. Refer to Appendix A of this booklet for troubleshooting information.

- 4. Click Accept in the Scan Test window.**
- 5. Complete the setup procedure.**

Proceed from Step 7 of the procedure in the earlier section, “Run the software setup program.”

INSTALLING THE TEXTBRIDGE IN-PLACE PROOFREADER

A key element in the design of TextBridge Pro is its ability to be integrated with other applications. The goal is to provide maximum productivity.

One result of this approach is the unique **In-Place Proofreader™**. With this capability, you can proof recognized text directly in:

- ◆ Word for Windows 6.0a (and later)
- ◆ WordPerfect for Windows 6.1

To use the In-Place Proofreader with one of these applications, you must first install it, as described in the next two subsections.

Installing the In-Place Proofreader in Word



TextBridge Pro 96
Proofreader Install - Word

After you install TextBridge Pro software, a TextBridge Pro 96 folder is created on the Programs menu (refer to Figure 2–4). Among the icons in this folder is **TextBridge Pro 96 Proofreader Install – Word**, with a Microsoft Word icon.

To install the TextBridge Pro 96 Proofreader in Word for Windows 6.0a (or later):

1. **Access the TextBridge Pro 96 folder from the Programs menu (Figure 2–4).**

To do this, click the Start button on the taskbar, point to Programs, then point to the TextBridge Pro 96 folder.

2. **Click the TextBridge Pro 96 Proofreader Install – Word icon.**

This launches Word for Windows, and opens a document named **mswproof.doc**, which is included with TextBridge Pro.

The document contains a built-in **Install** button, which enables you to install a macro embedded in the document.

3. **Double-click the Install button in the document.**

- ☞ If you need to, use the vertical scroll bar to display the button.

This starts the macro installation process. When installation is complete, the **mswproof.doc** document is redisplayed, and a dialog box displays a message telling you that the TextBridge Proofreader has been installed.

4. **Click OK to close the dialog box.**

5. Exit Word.

You can now go on to use TextBridge Pro 96 and the TextBridge Proofreader. (A **TextBridge Proofreader** command is now included in Word's File menu.) For more information, refer to Chapter 3 of this manual, or to the on-line Help.

Installing the In-Place Proofreader in WordPerfect



TextBridge Pro 96
Proofreader Install - WP

After you install TextBridge Pro software, a TextBridge Pro 96 folder is created on the Programs menu (refer to Figure 2-4). The folder includes a **TextBridge Pro 96 Proofreader Install – WP** icon.

To install the TextBridge Pro 96 Proofreader in WordPerfect 6.1, use the following procedure.

Note To run the installation program, you must have installed WordPerfect 6.1 and its Shared components library. For complete information, refer to the appropriate WordPerfect documentation.

- 1. Access the TextBridge Pro 96 folder from the Programs menu (Figure 2-4).**

To do this, click the Start button on the taskbar, point to Programs, then point to the TextBridge Pro 96 folder.

- 2. Click the TextBridge Pro 96 Proofreader Install – WP icon.**

A dialog appears requesting two installation directories—one for WordPerfect itself, and the other for the WordPerfect Shared components library. In edit boxes, it displays the default directories for both of these items:

```
c:\office\wpwin  
c:\office\shared\wpc20
```

3. Proceed as follows:

If you have not installed either of these items, click the Exit button. Install WordPerfect and/or its Shared components library, then proceed from Step 1 of this procedure.

If you used the default directories when you installed WordPerfect and its shared components, go to Step 4. Otherwise, enter the directory paths in the edit boxes, then proceed to Step 4.

- ☞ If you are not sure of a directory path, click the Browse button to display a dialog where you can locate and select the path. When you are done, click OK. The path is automatically placed in the edit box in the TextBridge Pro 96 Proofreader Install – WP dialog.

4. Click Continue in the TextBridge Pro 96 Proofreader Install – WP dialog.

Installation proceeds. When it is done, the program displays a message box informing you that:

The TextBridge Proofreader for WordPerfect 6.1 has been successfully installed.

5. Click OK in the message box.

You are now ready to use TextBridge Pro 96 and the TextBridge Proofreader.

For more information, refer to Chapter 3 of this manual, or to the on-line Help.

WHERE TO GO FROM HERE



With TextBridge Pro 96 fully installed, you are ready to begin using the product.

Please refer to Chapter 3 of this guide. It provides step-by-step tutorial sessions designed to help you learn some of the important features of TextBridge Pro.

UNINSTALLING TEXTBRIDGE PRO

To restore your PC to the state it was in before you installed TextBridge Pro, use the following procedure:

- 1. Exit from TextBridge Pro, if it is running.**
- 2. If Instant-Access OCR is running on your Windows desktop, close it.**

If the TextBridge Instant Access OCR Registration dialog is open, click OK. Next, with your right mouse button, click the Instant-Access OCR button on the taskbar, then click Close.

- 3. If you have a Shortcut to Tb96 icon on the desktop, drag it to the Recycle Bin.**
- 4. If you installed the TextBridge Pro 96 Proofreader in Microsoft Word, uninstall it.**

Access the TextBridge Pro 96 folder from the Program menu. To do this, click the Start button, point to Programs, then point to the TextBridge Pro 96 folder.

Click the TextBridge Pro 96 Proofreader Uninstall – Word icon. This launches Word for Windows, and opens `mswproof.doc`.

Double-click the Uninstall button in the document. (If necessary, use the vertical scroll bar to scroll down to the Uninstall button.)

Follow any additional prompts, then exit Word.

- 5. If you installed the TextBridge Pro 96 Proofreader in WordPerfect, uninstall it.**

Access the TextBridge Pro 96 folder from the Program menu. To do this, click the Start button, point to Programs, then point to the TextBridge Pro 96 folder.

Click the TextBridge Pro 96 Proofreader Uninstall – WP icon. This launches WordPerfect for Windows.

Click Continue in the TextBridge Pro 96 Proofreader
Uninstall – WP dialog.

Follow any additional prompts, then exit WordPerfect.

- 6. Exit from any open applications.**
- 7. Access the TextBridge Pro 96 folder from the Programs menu (Figure 2–4).**

To do this, click the Start button on the taskbar, point to Programs, then point to the TextBridge Pro 96 folder.

- 8. Click the TextBridge Pro 96 UnInstall icon.**

A dialog prompts you to uninstall the Word or WordPerfect proofreader, if you installed them previously.

- 9. Click Continue.**

A dialog prompts you to exit all applications.

- 10. Click OK.**

A Confirm File Deletion dialog box asks you:

Are you sure you want to completely remove the TextBridge application and all of its components?

- 11. Click Yes.**

A Restart? dialog tells you that your computer needs to be restarted to complete the uninstall process.

- 12. Click OK.**

With the above steps completed, TextBridge Pro is completely uninstalled from your PC.



TUTORIALS

This chapter provides step-by-step tutorials designed to introduce you to some of the most important capabilities of TextBridge Pro 96.

To familiarize you with TextBridge Pro, the following topics are presented in this chapter:

- ◆ TextBridge Pro interface
- ◆ sample documents
- ◆ automatic operation
- ◆ capturing parts of a document (preview)
- ◆ interactive training
- ◆ Instant-Access OCR™ (running TextBridge Pro from within a text application)
- ◆ document recombination (this requires a word processor that supports multiple columns and embedded images, for example Word for Windows 6.0)
- ◆ performing post-recognition proofing and editing from within your text application (this exercise requires Word for Windows 6.0 or later, or WordPerfect for Windows 6.0 or later)

TEXTBRIDGE PRO INTERFACE



This section provides a brief overview of the TextBridge Pro interface.

To start TextBridge Pro in Windows 95, double-click the Shortcut to Tb95 icon on the desktop. (Setting up this shortcut is explained in the Quick Start section at the beginning of this guide).

Otherwise, start TextBridge Pro in Windows 95 as follows:

- 1. Click the Start button on the Windows taskbar.**
- 2. Point to Programs, then point to the TextBridge Pro 96 folder.**
- 3. Click the TextBridge Pro 96 icon.**

The TextBridge Pro main window is displayed (Figure 3–1).

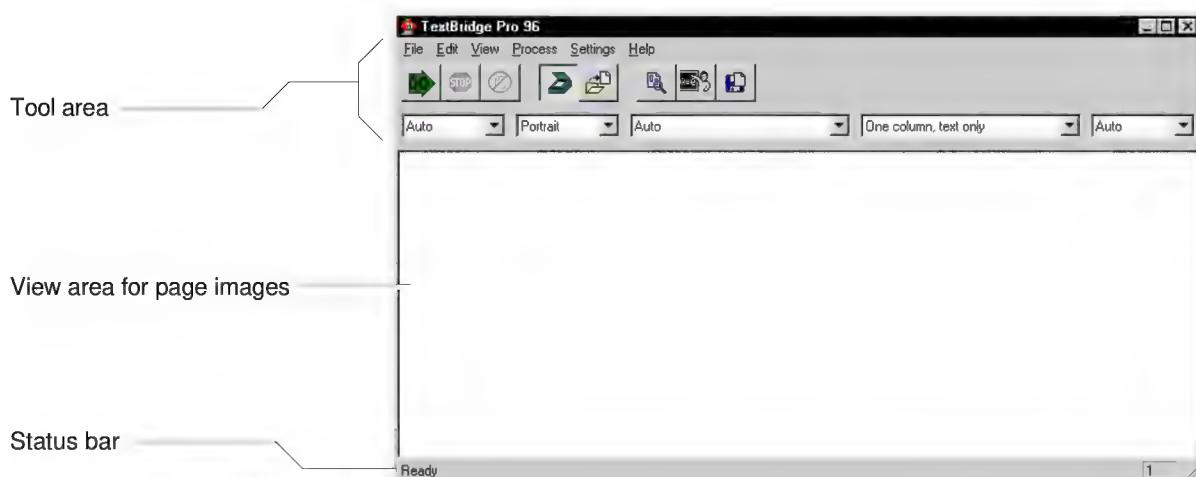


Figure 3-1. *TextBridge Pro main window*

The main window shown in Figure 3-1 follows the standards for Windows 95. The upper right corner provides standard Minimize, Maximize, and Close buttons.

Below the TextBridge Pro 96 title bar, the main window provides a **menu bar**, a **main toolbar**, and a **preferences panel**. These tools let you set up, start, and control the document recognition process. Note that when you place the cursor in the view area and click the right mouse button, a pop-up menu of TextBridge Pro commands appears.

At different stages of the process, additional toolbars—the **preview toolbar** and interactive **training toolbar**—are added automatically beneath the preferences panel (Figure 3–2).

Below the toolbar area, the largest area of the main window is the **view area**. Here, depending on the processing stage (preview, training, feedback), different views of the page image appear.



Figure 3-2. Preview and training toolbars

At the bottom of the main window, the **status bar** provides descriptions of toolbar tools when you place the cursor over them. During processing, it also displays messages that indicate the status of the job. Near the right edge of the status bar, an inset area contains the current **page number** being processed.

Except for an occasional **dialog box**, all program activities take place in the main window. It is your control center for TextBridge Pro's powerful document recognition tools.

SAMPLE DOCUMENTS



For use with the tutorial sessions provided in this chapter, TextBridge Pro provides five sample documents located in the installation subdirectory:

C:\Program Files\TextBridge Pro 96\tiffs

The sample documents are stored in TIFF format and are named:

3col Markplan Plexis
Resume Zonepic

The sample documents provide a cross-section of the document types that TextBridge Pro can process. They are designed to highlight the wide range of capabilities the program provides.

- ☞ Refer to Appendix B of this document for descriptions and pictures of the sample documents.

In each of the six tutorial sessions provided in this chapter, you are asked to use a specific sample document.

To identify an on-line sample document for TextBridge Pro to use, follow these steps:

1. **From the TextBridge Pro main toolbar, push in the Read Image from File button:**



2. **Click the Go button.**



TextBridge Pro now displays the Open dialog (Figure 3–3).

Usually, the default directory (**tiffs**, that is, C:\Program Files\TextBridge Pro 96\tiffs) is open.

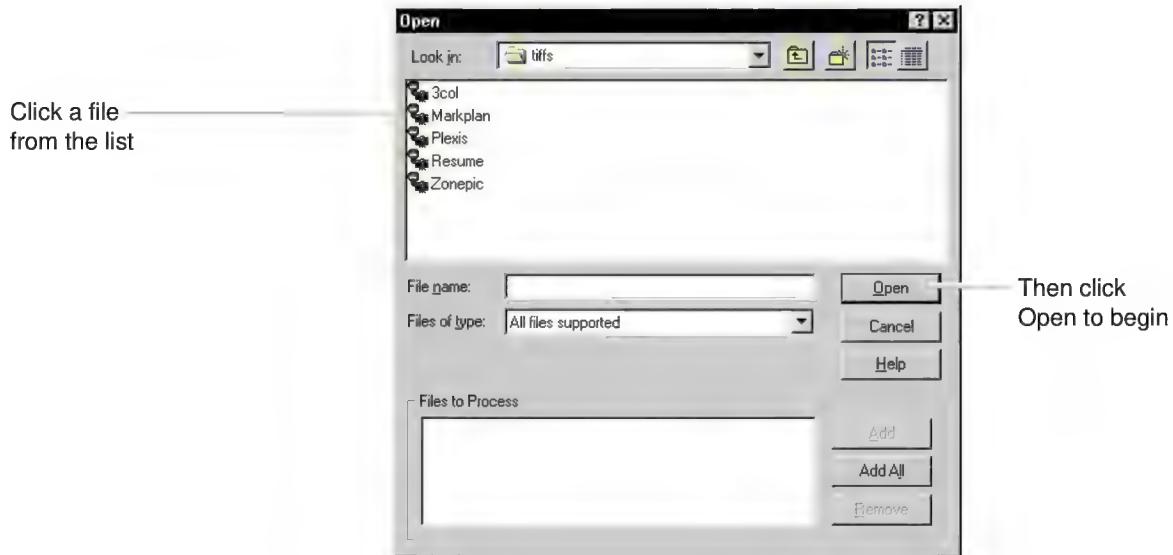


Figure 3-3. Open dialog

3. **If necessary, access the sample documents directory from the Open dialog:**

C:\Program Files\TextBridge Pro 96\tiffs

The five sample TIFF files should now be listed in the Open dialog.

4. **Double-click a file name to open it.**

After TextBridge Pro reads the on-line image and preprocesses it, the Save As dialog appears (Figure 3-4).

5. **Click Cancel to close the Save As dialog without saving the file.**

Please now proceed to the tutorial sessions to work with TextBridge Pro, and familiarize yourself with its capabilities.

SESSION 1: AUTOMATIC OPERATION



TextBridge Pro provides a range of features that no other OCR program can match.

However, TextBridge Pro is also designed to be very easy to use. For most documents, you can use default settings, and simply press the **Go** button to start the document recognition process.

- ☞ For this example, use the on-line sample document named *Markplan*.
- 1. **On the main toolbar, select the Read Image from File button.**
- 2. **Click the Go button on the main toolbar.**
- 3. **In the Open dialog (refer to Figure 3–3), locate and select the sample document, *Markplan*, then click Open.**

TextBridge Pro reads the on-line image, and automatically performs OCR on it, as indicated by the feedback display in the view area of the main window. When it is finished, it displays the Save As dialog (Figure 3–4).



Figure 3–4. *Save As* dialog

4. In the Save As dialog, define the output file.

In the Save as type combo box, select the output format for your word processor or other text application.

In the File name box, type a file name, using the file extension provided (for example, if you selected Word, the default file extension is .rtf).

Click Save to convert and save the recognized data.

5. Open the file with your word processor or other text application.

Compare the recognized document in your word processor with the picture of the sample document, markplan.tif, in Appendix B of this document. With a word processor such as Word or WordPerfect, the recognized document should look virtually identical to the TIFF image. The difference is now you have formatted, fully editable text.

SESSION 2: CAPTURING PARTS OF A DOCUMENT



TextBridge Pro also enables you to capture selected parts (text and graphics) of a document. For this purpose, TextBridge Pro provides **preview** tools.

- ☞ For this example, use the on-line sample document named Zonepic. Note that you also need a text application that can display both text and graphics, such as WordPerfect.

1. On the main toolbar, push in the Read Image from File and Preview buttons.



2. In the Preferences Panel, fourth combo box (Output Document settings), select One column with pictures.



3. Click the Go button on the main toolbar.
4. In the Open dialog, locate and select the sample document, Zonepic, then click Open.

TextBridge Pro reads the on-line image, and in a few moments, displays it in the view area of the main window (Figure 3–5).

5. Zoom in on the page.

Select the Zoom In tool:



Position the mouse inside the view area at the upper left corner of the page image, and click once to magnify this area of the page.



Figure 3–5. Main window in preview mode

6. Create a text zone.

Select the Text Zone tool:



Position the mouse inside the view area at the upper left corner of the page image.

Holding down the left mouse button, drag the mouse diagonally downward until the text zone rectangle outlines a block of text to be recognized (Figure 3–6).

Release the mouse button.

Text zone identifies area to be recognized



Figure 3–6. Text zone on previewed page

7. Use the vertical scroll bar to the right of the view area to display the bottom of the scanned page image.
8. Again click the Zoom In tool, and click once on the line art at the bottom right of the page image.
9. Create an image zone.

Click the Image Zone tool:



Position the mouse at the upper left of the line art on the previewed page.

Holding down the left mouse button, drag the mouse diagonally downward until the image zone rectangle outlines the line art (Figure 3–7). Release the mouse button.

Image zone identifies graphic to be captured

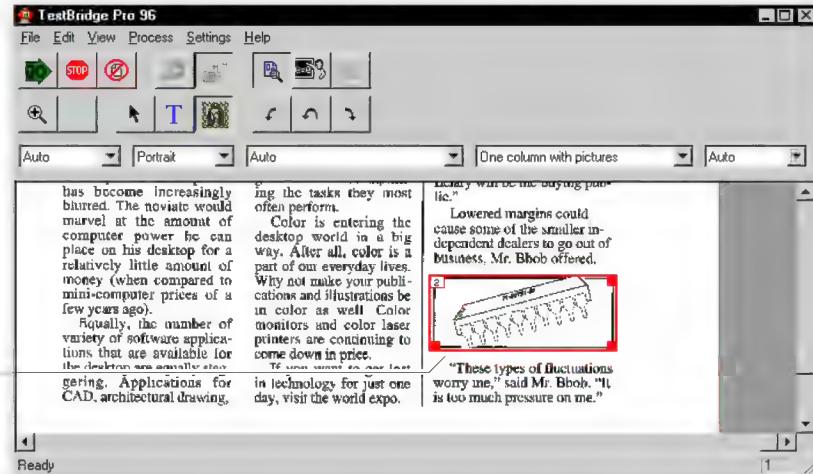


Figure 3–7. *Image zone on the previewed page*

- 10. Click the Go button again to process the zoned text and image.**

When processing is complete, TextBridge Pro displays the Save As dialog (refer to Figure 3-4).

- 11. Define the output text file, then click Save in the Save As dialog.**
- 12. Open the file with your word processor or other text application.**

The text contained in the text zone you created in Step 6 is followed by the line art in the image zone you created in Step 9.

SESSION 3: INTERACTIVE TRAINING



To assure the highest possible accuracy, TextBridge provides an **interactive training** capability. This feature enables you to participate in the OCR process, verifying correctly recognized words and correcting recognition errors.

Interactive training is especially effective for degraded documents, such as faxes and multi-generation photocopies.

As you correct and/or accept TextBridge Pro's recognition decisions for a page or two, you also train the program to improve its own accuracy rate for later pages of the document.

In addition, you can save and later reload **training data** to assure that other documents of the same type are recognized with the same high degree of accuracy.

☞ For this example, use the on-line sample document named **Plexis**.

1. On the main toolbar, push in the Read Image from File and Train OCR buttons:



☞ Make sure the Preview button is not pushed in.

2. In the Preferences Panel, make sure the first combo box (Original document quality) is set to Auto or Fax.



3. Click the Go button on the main toolbar.
4. In the Open dialog, locate and select the sample document, Plexis, then click Open.

When TextBridge Pro finds the first **suspect word**, it adds the **training toolbar** to the main window and displays the suspect word in the Word edit box. The image of the word is highlighted immediately below in the view area (Figure 3–8).

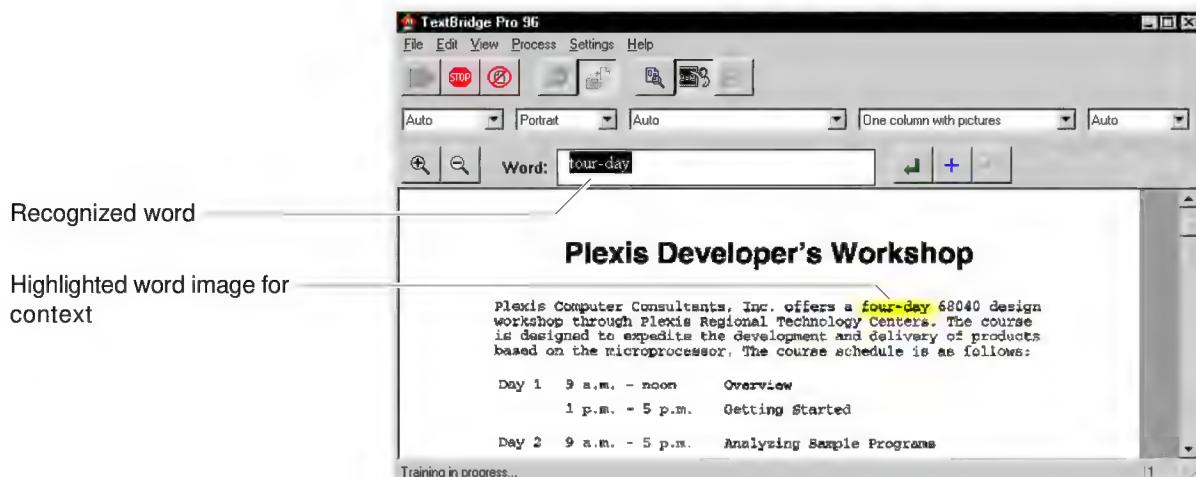


Figure 3–8. Main window in interactive training mode

5. Go on to train TextBridge Pro on the suspect words.

If the word is correct, simply press the Enter key on your keyboard, or click the Accept button on the Training toolbar:



If the word is incorrect, correct it in the Word edit box, then accept it.

Continue correcting and/or accepting words at your option. You can complete the entire page or only a portion. Generally, it is recommended that you complete at least one full page of a multi-page document to sufficiently train TextBridge Pro about the character shapes and sizes for that document.

For the purposes of this example, correct and accept about 10 words, then turn training off by clicking the Train OCR button on the main toolbar again.

TextBridge Pro finishes recognition of the page, then provides a prompt that asks:

Do you want to save training data?

6. Click No to discard training data.

TextBridge Pro now displays the Save As dialog (refer to Figure 3–4).

7. Define the output text file, then click Save in the Save As dialog.

TextBridge Pro converts the document to the selected format.

8. Open the file with your word processor.

Notice that, even though the input document was a low-quality fax image, TextBridge Pro recognized it with a high degree of character recognition and formatting accuracy.

SESSION 4: INSTANT-ACCESS OCR

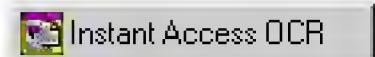


TextBridge Pro is the only high-end document recognition program that can be launched from virtually any Windows text application, and can automatically paste recognized data directly into that text application's open document.

This capability is referred to as **Instant-Access OCR™**.

When you install TextBridge Pro (refer to Chapter 2), the setup program automatically places a copy of the Instant-Access OCR program in your Windows StartUp folder.

So, whenever you start Windows, the program is automatically launched and minimized on your Windows desktop:



This assures that TextBridge Pro is always immediately available from your text application.

- ☞ For this example, use the on-line sample document named Resume.

1. **From Windows, launch your text application, and open a new document.**
2. **Verify that the Instant Access OCR program is active on your Windows desktop.**

Go directly to Step 3 if the Instant Access OCR program is already active on your Windows desktop. (It's a minimized button on the taskbar.)

If the program is not already running, click the Start button on the Windows taskbar. Point to Programs, then point to the TextBridge Pro 96 folder. Click the TextBridge Pro 96 Instant Access OCR icon.

The program starts up minimized on your Windows desktop.

3. Register your text application.

Click the Instant Access OCR button on the taskbar to display the Registration dialog (Figure 3–9). In the Registration dialog, your text application should appear in the top list

Click your text application in the top list, and click the Add button to add it to the bottom list of registered applications. Skip this step if your text application already appears in the bottom list.

Click the OK button in the Registration dialog. The Instant Access OCR program is again minimized on your Windows desktop.

Select the program to register from this list

Click Add to register the program

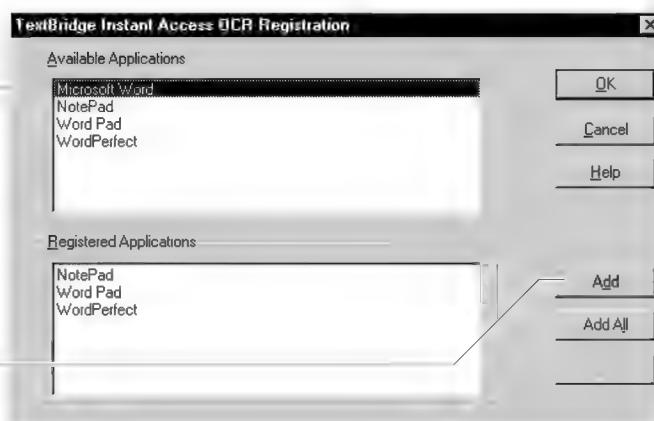


Figure 3–9. Instant Access OCR Registration dialog

4. Access TextBridge Pro from your text application.

Switch back to your text application.

Pull down the File menu of your text application, and select the now-present **TextBridge OCR** command. The TextBridge Pro main window now appears (refer to Figure 3–1).

Otherwise, switch to TextBridge Pro, if it's already running, by clicking its button on the taskbar.

- ☞ Make sure that Save Proofing Data in the Process menu is not checked.

5. **On the main toolbar, select the Read Image from File button.**
6. **Click the Go button on the main toolbar.**
7. **In the Open dialog, locate and select the sample document, Resume, then click Open.**

TextBridge Pro reads the on-line image and automatically performs OCR on it.

The program converts the recognized text to two formats (RTF and Windows ASCII), and copies it to the Windows clipboard. It then automatically pastes one of the formats into your text application's open document.

- ☞ If your application can import RTF (Microsoft's Rich Text Format), then the RTF-formatted data on the clipboard is pasted. Otherwise, Windows-ASCII is pasted. Formatting characteristics, such as bold, italic, underlining, columns, and so on, are lost.

When the paste is complete, the TextBridge Pro main window closes.

8. **You can now go on to edit or otherwise use the recognized text in your text application.**

The TextBridge Instant Access OCR program remains active and minimized on the Windows desktop.

9. **To close the Instant Access OCR program, click its button on the taskbar with your right mouse button, then click Close.**

SESSION 5: DOCUMENT RECOMPOSITION



TextBridge Pro is the first OCR application capable of recomposing the layout of a document, including text and graphics, while maintaining full editability in the output file.

Consider, for example, a three-column newsletter that includes a picture. Assuming your text application supports these elements, TextBridge Pro not only can recognize the text, it can correctly recompose the column layout and output a copy of the picture in its original location.

☞ For this session, use the sample document, **3col**. Also, for full recomposition, TextBridge Pro supports output only to Word for Windows (2.x, 6.x, and higher than 6.x) and WordPerfect 6.1 (or higher).

- 1. Launch TextBridge Pro. On the main toolbar, select the Read Image from File button.**
- 2. Set up preferences appropriately.**

In the Preferences Panel, in the third combo box (Original document layout), select the Auto setting.

In the Preferences Panel, in the fourth combo box (Document recomposition), select Recompose all.

- 3. Click the Go button on the main toolbar.**
- 4. In the Open dialog, locate and select the sample document, **3col**, then click Open.**

TextBridge Pro reads the on-line image, and automatically performs OCR on it. When it is finished, it displays the Save As dialog (refer to Figure 3-4).

- 5. Define the output text file, then click Save in the Save As dialog.**
- 6. Open the file with your word processor.**

Display the document so that its full layout is shown. For example, in Word for Windows 6.0, you must select the Page Layout command from the View menu.

Notice that the document is composed in three columns, and that the picture of the butterfly is output in the center of the second column.

Now click inside the first column, and start typing. Notice that the text flows appropriately across column boundaries. TextBridge Pro is the only OCR program that provides true editability in the recomposed output.

Notes About Document Recomposition

For some documents, you may want only the text in simple galley (one-column) form. Recomposition modes in TextBridge Pro are not appropriate here.

TextBridge Pro provides two recomposition modes. In one, Recompose Text, only the text is recomposed. This is useful, for example, when your document contains cell tables and you want them output as **cell tables**. (Word and WordPerfect support tabular data in gridded rows and columns; these are referred to as cell tables.)

In the second recomposition mode, Recompose All, text and automatically-detected (or manually-zoned) graphics are output in their original column layout and locations.

For best results in recomposing a document with graphics, you can use TextBridge Pro's **Smart Zones™** feature in preview mode. Before you process a page, display it in preview mode, and create image zones around **all** the graphics on the page (halftones and line art). Then click Go to process the page. The original column layout is maintained, and the pictures are output appropriately.

The reason why Smart Zones improve recomposition is that, quite frequently, pictures in a document include text, or some element that TextBridge Pro mistakes for text. Without Smart Zones, this can disrupt the recomposition process. With Smart Zones, TextBridge Pro only recognizes the areas not zoned.

It is important to note that, in reconstructing the layout of the original document, TextBridge Pro is limited by the composition capabilities of the target word processor.

You should **not** expect to scan a complex magazine page originally created with a desktop publishing program and get identical output in your word processor. Even the most powerful word processors (Word, WordPerfect) do not have some of the composition capabilities of desktop publishing software.

In addition, some free-form layouts defeat TextBridge Pro's recomposition capabilities. For these types of documents, it is often best to preview pages and manually zone text and image zones that you want to capture.

SESSION 6: IN-PLACE PROOFING

Replace

If you work with Word for Windows 6.0a (or later) or WordPerfect 6.1 (or later), TextBridge Pro provides a unique proofing capability to assure the highest productivity and OCR accuracy.

The **TextBridge Proofreader** capability is embedded directly in your word processor, providing powerful proofing and editing tools to verify or correct suspect words in the recognized output document.

- ☞ For this example, use the on-line document, *Plexis*. Also, you must have either Word for Windows 6.0a (or later) or WordPerfect for Windows 6.1 (or later) to use the TextBridge Proofreader capability.

1. **Install the TextBridge Proofreader capability in your word processor.**

Please refer to Chapter 2 of this guide for instructions.

2. **Launch TextBridge Pro. From the Process menu, select:**

Save Proofing Data

3. **On the main toolbar, select the Read Image from File button.**

Make sure all state buttons on the main toolbar are off.

4. **Click the Go button on the main toolbar.**

5. **In the Open dialog, locate and select the sample document, *Plexis*, then click Open.**

TextBridge Pro reads the on-line image, and automatically performs OCR on it. When it is finished, it displays the Save As dialog (refer to Figure 3-4).

6. Define the output file, then click Save in the Save As dialog.

Save the file either in Word for Windows 6.0 (or later) or WordPerfect 6.1 (or later) format.

Click Yes if you are prompted to replace the existing file.

7. Open the file with your word processor.

Notice that some of the words in the document are shown in a color other than black. These are **suspect words** and their colors indicate the level of uncertainty that TextBridge has assigned to them, as follows:

Green	=	High confidence
Dark Yellow	=	Medium confidence
Red	=	Low confidence

8. Pull down the word processor's File menu, and select the TextBridge Proofreader command.

The TextBridge In-Place Proofreader dialog now appears in the middle of your screen (Figure 3–10). The first suspect word in the document is shown in the Suspect edit box.

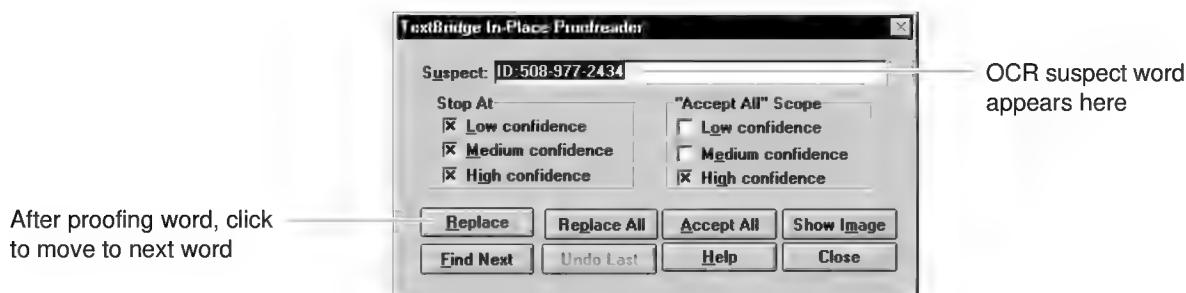


Figure 3–10. TextBridge Proofreader dialog

☞ You may find it easier to perform proofing by moving the dialog to a corner of your monitor, so you can see as much of the actual document as your screen size allows.

9. Go on to proof suspect words in your document.

Following are a few features of the TextBridge Proofreader that you should note:

To proof a suspect word, correct it in the Suspect edit box if needed, then click Replace. If the word is correct already, simply click Replace to move to the next word.

To start, you may want to correct all the Low confidence (red) words first. Set the Stop At category to Low Confidence only. Then as you proceed, the TextBridge Proofreader will move only through the low confidence words.

To speed up the process, you can set the Accept All range accordingly, and simply Accept All. For example, if the High confidence (green) and Medium confidence (dark yellow) words look mainly correct, you can click these items on in the Accept All range, then click Accept All.

If TextBridge Pro seems to have repeatedly made the same recognition error on all instances of a suspect word, you can correct it once, then click the Replace All button.

If a suspect word is garbled beyond recognition, you can click the Show Image button to display the original scanned image of that word (Figure 3–11).

Suspect word image is highlighted and shown in context

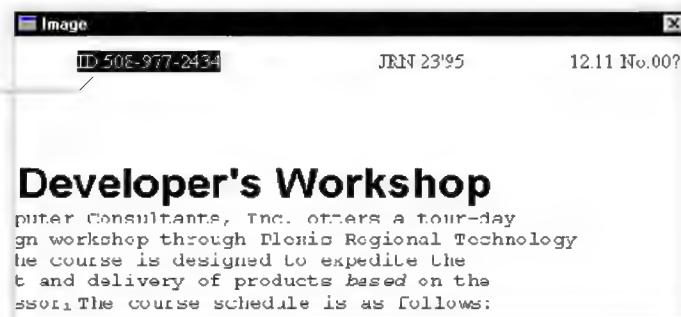


Figure 3-11. TextBridge Proofreader Image window

When you have completed post-recognition proofing, the TextBridge Proofreader dialog (and Image window, if showing) closes automatically.

If you do not want to proof all suspect words, you can click Close any time to end proofing. If you do, a dialog asks you if you want to save the remaining proofing data. Click Yes or No as desired.

After you are done with proofing, you can still run the word processor's native spell-checker to verify that all errors have been corrected.

WHERE TO GO FROM HERE



The tutorial sessions in this chapter were designed to give you a solid basis on which to use TextBridge Pro for your own documents.

For complete information about TextBridge Pro, please refer to the on-line Help built into the application.



TROUBLESHOOTING AND ERROR CORRECTION

TextBridge Pro is designed to be easy to install and use, and, under typical circumstances, you should rarely experience problems.

However, should you encounter a problem during installation or use of TextBridge Pro, first consult this appendix to try to resolve the problem yourself.

TextBridge Pro error messages appear in a standard Windows error dialog box, as shown in Figure A-1.

Click OK, then correct
error condition

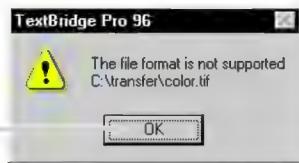


Figure A-1 Error message example

For information to resolve an error condition, refer to the appropriate section in this appendix. This appendix is organized in three sections:

- ◆ What to do if you encounter a problem
- ◆ Troubleshooting common problems
- ◆ Correcting general error conditions

WHAT TO DO IF YOU ENCOUNTER A PROBLEM

If you are a new or inexperienced user, and you encounter a problem, first refer to "Troubleshooting Common Problems," the next section in this appendix. That section suggests solutions to common problems found by TextBridge Pro users.

If you are a more experienced TextBridge Pro user and you encounter an error, refer to the "Correcting Error Conditions" section to locate the error, and follow the recommended solution.

When you get an error message, write down the text of the message.

Also, note the sequence of steps you took to generate the message. This information can be useful later if you cannot solve the problem and must call Xerox Customer Support.

If you get an error message that you cannot locate in this appendix, and/or you cannot resolve a problem on your own, contact Xerox Customer Support in the United States. From the United States, Canada, or the Pacific Rim, call:

- ☞ 508-977-0764 (voice)
508-977-2434 (fax)
508-531-0675 (electronic registration fax number)

From Europe and the Middle East, call your authorized Xerox reseller, or contact Xerox in England at:

- ☞ 44-(0)1734-668421 (voice)
44-(0)1734-261913 (fax)

If you should need to call Xerox Customer Support, be ready to provide:

- ◆ your software registration number (the serial number)
- ◆ a list of the steps that led up to the problem
- ◆ a verbatim description of the error message

TROUBLESHOOTING COMMON PROBLEMS

This section describes typical problems with TextBridge Pro, and provides suggestions to resolve them. It also discusses other issues. Specifically, this section is organized into four topics:

- ◆ ISIS scanner problems
- ◆ TWAIN scanner notes and troubleshooting
- ◆ Virtual memory problems
- ◆ Other problems

ISIS scanner problems

TextBridge Pro provides a number of ISIS scanner drivers developed by Pixel Translations, Inc. and other sources.

Following are some common error messages relating to ISIS scanner setup and use, and suggestions to correct the error conditions:

Can't open system-level scanner driver; check installation

In TextBridge Pro Setup, after selecting the scanner driver, you run the Test command to test the scanner, and this message appears.

Assuming you have correctly installed the scanner interface card and connected and powered on the scanner, do the following: Load the scanner **system-level driver** (.sys file) file onto your PC, reference the complete file pathname in a device statement in your config.sys file, then restart your PC.

The system-level driver, and instructions to install it, should be provided by the interface card or scanner manufacturer.

Unable to read from scanner device. Please check cables and connections.

This error can be caused by not having your scanner hardware powered on or properly installed and connected. Or it could indicate a hardware failure somewhere in the path. Double-check your hardware installation.

If your hardware appears to be functioning correctly, this error can also be caused by having selected the wrong ISIS driver in the scanner installation section of TextBridge Pro setup. Repeat the scanner installation procedure in the setup program.

Another possibility is that the ISIS driver file has somehow gotten lost or corrupted. Reinstall TextBridge Pro software, and select the correct ISIS driver again.

ISIS error or Cannot write to device USCAN.XXX

In Setup, when you test the scanner, one of these messages can appear.

If you have an Envision scanner, install the ISIS driver provided by Envision Systems, Inc.

From Setup, choose ISIS from the Select Scanner/Source dialog, then click Continue. Insert the Envision diskette into the disk drive, and from the ISIS Scanner Selection dialog, click the Add button. In the next dialog, type the directory path:

drive:\txbridge\6100

Then click OK. In the ISIS Add Scanner dialog, select the ISIS driver for your scanner, then click OK.

If you encounter one of these errors with another scanner, the TextBridge Pro ISIS driver could be outdated.

Call the scanner manufacturer to see if an updated ISIS driver is available.

If not, call Xerox Customer Support.

Also, these errors can be generated by an address conflict with another device.

Try changing the memory address of your scanner card according to manufacturer instructions.

Finally, these error messages can be generated by an extended memory manager, such as EMM386, that allocates your scanner card memory address to another device.

In that case, you need to exclude your scanner card's memory address in the EMM386 statement in your config.sys file.

TWAIN scanner notes and troubleshooting

TWAIN is an emerging industry standard for the development of scanner and other image-capture device drivers. As such, the quality of TWAIN scanner drivers and their compatibility with TextBridge Pro can vary significantly.

TextBridge Pro generally works well with **fully-TWAIN compliant** scanners and other image-capture devices. TextBridge Pro can work less well with TWAIN scanners whose drivers omit certain necessary features.

At minimum, for your TWAIN scanner to work with TextBridge Pro, it must have the following software:

- ◆ **TWAIN source manager** (TWAIN.DLL)—This software manages the communication between your scanner's TWAIN source driver and TextBridge Pro. It is typically provided by your scanner manufacturer and must be loaded into the Windows directory, typically C:\WINDOWS.
- ◆ **TWAIN source driver**—This is the actual scanner driver. It is provided by your scanner manufacturer and typically is loaded in C:\WINDOWS\TWAIN, or a subdirectory of this directory path. It is the TWAIN source driver that enables TextBridge Pro and your scanner to communicate. Consequently, it is important that you **check with your scanner manufacturer to make sure you have the most up-to-date TWAIN source driver for your scanner**.

This section describes some of the problems that you can encounter with a TWAIN scanner while installing it or using it with TextBridge Pro. It also provides TWAIN scanner notes to enable you to optimize your scanner's performance with TextBridge Pro.

Problems setting up the scanner

The TextBridge Pro setup program links your scanner's TWAIN source driver with TextBridge Pro.

If your scanner's TWAIN software or hardware is not properly installed, you can encounter one of the following problems:

There was an error selecting a scanner driver. Check to make sure you have properly installed all the required files.

This message is generated when TextBridge Pro (or setup) cannot find one of the following:

- ◆ the TWAIN source manager (TWAIN.DLL) in the Windows directory
- ◆ at least one TWAIN source driver in C:\WINDOWS\TWAIN

Check to see that a file named TWAIN.DLL resides in the C:\WINDOWS directory. Also check to see that there is a C:\WINDOWS\TWAIN subdirectory, and that it contains a subdirectory or file.

If neither of these conditions is true, repeat all TWAIN installation steps described in your scanner documentation. Verify the existence of the TWAIN files, as above. **Restart your PC and Windows.** Then try running TextBridge Pro Setup again.

If you still encounter problems, call Xerox Customer Support.

Scanner not ready or Scanner initialization fails

To detect a TWAIN scanner, TextBridge Pro simply looks for the presence of certain TWAIN files; it does not check the hardware interface.

If you get one of the error messages above, or a similar message, it means that there is some problem with the hardware installation of your TWAIN scanner.

If you get this problem, carefully re-install and test your TWAIN device according to manufacturer's instructions.

TWAIN native user interface

When you install TextBridge Pro software, default settings are placed in the Windows 95 system registry. To review the registry settings, follow the steps below.

Note If you are running Windows NT, use regedt32.exe to edit the registry settings.

- 1. Exit TextBridge Pro and Instant Access OCR.**
- 2. Click the Start button on the Windows taskbar, then click Run.**
- 3. Type regedit, then click OK.**

This displays the Registry Editor. You can display the registry settings for TextBridge Pro by opening a series of folders.

- 4. Double-click the HKEY_CURRENT_USER folder.**
- 5. Double-click the Software folder, double-click the Xerox folder, double-click the TextBridge folder, double-click the 96 folder, then double-click the TextBridge folder.**

This displays the TextBridge Pro registry settings for the current user.

6. **To change a setting, such as TwainUi, double-click the setting's icon. This brings up a dialog, such as the Edit DWORD Value dialog. Enter a new value for the Value data, then click OK.**

An item in the registry can control whether the TWAIN source driver's native user interface appears after each page is scanned:

TwainUi

The valid settings for this entry are '0x00000001 (1)' for on, and '0x00000000 (0)' for off. By default, this entry is set to **on**:

TwainUi 0x00000001 (1)

This means that the native UI will appear when your TWAIN scanner is accessed from TextBridge Pro. Thus, you will have to specify device settings and start image acquisition from this interface. If the device has an automatic document feeder, TextBridge Pro will process all the pages in the ADF.

When all pages are processed, the TextBridge Pro Add More Pages dialog will be displayed, and you can continue or end the process from this point.

If the device does not have an ADF, the Add More Pages dialog reappears after each page is scanned and processed. Note that TextBridge Pro's scanner settings will **not** have any effect in this mode.

Fully TWAIN-compliant source drivers, however, can work very well in TextBridge Pro **without** using the native UI:

TwainUi 0x00000000 (0)

In this case, TextBridge Pro will control your TWAIN scanner directly, much like an ISIS scanner.

You can specify scanner settings from the Preferences dialog, and if your scanner has a document feeder (ADF), TextBridge Pro will process all pages in the ADF before displaying the Add More Pages dialog.

If your scanner does not have an ADF, the Use Automatic Document Feeder option in the scanner settings portion of the Preferences dialog will be dimmed or hidden, and the Add More Pages dialog will appear after each page is processed.

For TWAIN source drivers that are not fully compliant, one of two things can occur if TwainUi is set to 0.

- ◆ The TWAIN scanner will not work correctly with TextBridge Pro. This will be evident if, in the Scanner portion of the Preferences dialog, settings such as resolution or page size have no options available. If this is the case, exit TextBridge Pro, change the registry editor setting for TwainUi to 1, close the Registry Editor, then restart TextBridge Pro, and try again.
- ◆ The native UI will always appear, no matter what, and you will still have to run your scanner from this user interface.

Adjusting the brightness range for TWAIN devices

When the TwainUi entry is set to 0 in the registry editor (see above), TextBridge Pro maps the Normal, Lighter, and Darker settings in its Scanner Settings dialog with the scanner brightness range for your TWAIN device.

Because the TWAIN standard allows for any brightness range from -1000 to +1000, TWAIN source drivers often differ from one another in the actual ranges they support. For example, one scanner might support a range of zero to 10, while another supports a range of -100 to +100, and a third supports a range of 0 to 0. These are all “valid” ranges under the TWAIN standard.

TextBridge Pro polls the TWAIN source driver to find out the range for your scanner. It then maps Normal to the middle of the range, Darker to one-third of the way beneath the middle, and Lighter to one-third of the way above the middle. So, for example, if the scanner had a brightness range of zero to 10, TextBridge Pro would build the following map to its settings:

Normal=5
Darker=3
Lighter=7

In some cases, it is possible that the built-in map for the Normal, Lighter, and Darker settings does not provide adequate gradations of brightness among the settings. If this is the case for your scanner, you can edit the registry settings to override the built-in map.

To create new settings:

- 1. Follow steps 1 through 5 in the previous section, “TWAIN native user interface,” to review the appropriate registry settings in the HKEY_CURRENT_USER folder.**
- 2. Select New from the Edit menu, then choose DWORD Value. Type NORMAL, and press Enter.**

Next, double-click the icon for the NORMAL setting in the right panel. The Edit DWORD Value dialog displays. Type in a value, such as 5, and click OK.

- 3. Select New from the Edit menu, then choose DWORD Value. Type DARKER, and press Enter.**

Next, double-click the icon for the DARKER setting in the right panel. Type in a value, such as 3, and click OK.

- 4. Select New from the Edit menu, then choose DWORD Value. Type LIGHTER, and press Enter.**

Next, double-click the icon for the LIGHTER setting in the right panel. Type in a value, such as 7, and click OK.

You can experiment with different values to see which ones actually work with your scanner. For example, suppose you set brightness to Normal in the Scanner Settings dialog, yet the image always appears too dark when you zoom in on it in the Preview window. You can adjust this value in the registry. The values you enter for registry settings will be **offsets** to the values of TextBridge Pro's built-in map.

Exit TextBridge Pro, and follow the steps above to edit the appropriate registry settings. If, as in the example above, Normal is too dark, lighten it by setting NORMAL to 5, for example. Exit the Registry Editor, then start TextBridge Pro. Turn Preview on. Scan a page at the Normal brightness setting and zoom in on it in Preview. Repeat the process until you have established a reasonable brightness offset for the Normal setting. Then repeat the process for the Lighter and Darker settings.

Inverted page images

Some TWAIN source drivers automatically reverse the pixels (picture elements) of the scanned images before TextBridge Pro receives them. The page images, in this case, come into TextBridge Pro with white characters on a black background.

When TextBridge Pro receives an inverted page image, it can often recognize that it is inverted, and reverse it automatically before attempting OCR. However, in some cases, an inverted page image will confuse TextBridge Pro, and either generate an error message, or cause very slow processing and useless output.

One way to tell if your TWAIN source driver causes this condition is to turn Preview on in TextBridge Pro and view the image before OCR. If it is white type on a black background, then your TWAIN device is providing inverted images to TextBridge Pro.

To fix this, follow the steps below.

Note If you are running Windows NT, use `regedt32.exe` to edit the registry settings.

- 1. Exit TextBridge Pro and Instant Access OCR.**
- 2. Click the Start button on the taskbar, then click Run.**
- 3. Type regedit, then click OK.**

This displays the Registry Editor. You can display the registry settings for TextBridge Pro by opening a series of folders.

- 4. Double-click the HKEY_CURRENT_USER folder.**
- 5. Double-click the Software folder, double-click the Xerox folder, double-click the TextBridge folder, double-click the 96 folder, then double-click the TextBridge folder.**

This displays the TextBridge Pro registry settings for the current user.

- 6. Scroll down to the Invert setting, and double-click the setting's icon. This displays the Edit DWORD Value dialog. Enter 1 for the Value data, then click OK.**

Close the Registry Editor, then restart TextBridge Pro. Turn Preview on, and scan a page from your TWAIN device. The image should now come into the Preview window with black type on a white background. You will now be able to process pages automatically without worrying about inversion.

Out of memory errors

TextBridge Pro requires as a minimum configuration a PC with eight megabytes (8Mb) of memory (RAM) and 8Mb of virtual memory. Even with this configuration, however, it is possible to get “out of memory” errors when you run your TWAIN scanner from TextBridge Pro.

Typically, this will happen only if you have one or two other large programs, such as a word processor or imaging program, running in Windows.

If this happens, you can switch to the other program(s) and exit them. Then try running your TWAIN scanner with TextBridge Pro again.

If you need to keep other programs running during TextBridge Pro operation, there is one other method you can try to minimize memory errors.

By default, TextBridge Pro interfaces with your TWAIN source driver in **native memory** mode. In this mode, the TWAIN source driver allocates enough memory to store the entire page image before it passes it to TextBridge Pro, sometimes as much as a full megabyte of memory.

To minimize the amount of memory your TWAIN source driver uses, you can instruct TextBridge Pro to communicate with your TWAIN source driver in **buffered memory** mode.

If the TWAIN source driver correctly supports buffered memory mode, it uses no more than 64 kilobytes (Kb) of memory at a time, passing the scanned image to TextBridge Pro in segments.

TextBridge Pro then copies these segments into the memory it has set aside to store the page image it is about to recognize.

Ideally, buffered memory mode reduces the total amount of memory the TWAIN source driver and TextBridge Pro use to manage the scanned image.

Some TWAIN source drivers do not properly support buffered memory mode, however, and have problems delivering a clean image to TextBridge Pro. In such cases, the image tends to be severely slanted or otherwise garbled, and TextBridge Pro cannot perform legible OCR on it.

If you encounter this problem, you must have TextBridge Pro use **native memory mode**.

In native memory mode, the TWAIN source driver allocates enough memory to store the entire page image before it passes it to TextBridge Pro.

To specify the buffered memory mode:

Note If you are running Windows NT, use `regedt32.exe` to edit the registry settings.

- 1. Exit TextBridge Pro and Instant Access OCR.**
- 2. Click the Start button on the taskbar, then click Run.**
- 3. Type `regedit`, then click OK.**

This displays the Registry Editor. You can display the registry settings for TextBridge Pro by opening a series of folders.

- 4. Double-click the `HKEY_CURRENT_USER` folder.**
- 5. Double-click the `Software` folder, double-click the `Xerox` folder, double-click the `TextBridge` folder, double-click the `96` folder, then double-click the `TextBridge` folder.**

This displays the TextBridge Pro registry settings for the current user.

- 6. Scroll down to the `Memory` setting, and double-click the setting's icon. This displays the Edit String dialog. Enter `MEMORY` for the Value data, then click OK.**

Close the Registry Editor, then restart TextBridge Pro. Try scanning with your TWAIN scanner.

Resolutions over 900 dpi

If from a TWAIN device you scan an image at greater than 900 dots per inch, or lower than 72 dpi, TextBridge Pro generates the following error from the main application:

Resolution of image is outside of supported range

For best OCR results, you should always scan at 300 to 400 dots per inch.

Color or grayscale images

TWAIN scanners often default to color or grayscale scanning. However, TextBridge Pro can process binary (black and white) images only. If you accidentally send a color or grayscale image to TextBridge Pro, it can generate one of the following errors:

The file format is not supported

Invalid image format

If you get this type of error, make sure you have the black and white setting on in your TWAIN source driver.

TWAIN source driver errors

The TWAIN standard is still emerging. Developers of TWAIN source drivers fine-tune them so that the scanners work with a particular application. Typically, the scanner, source driver, and application are sold as a bundle, and they all work fine together.

However, if you get an error from the TWAIN source driver while using your device with TextBridge Pro, it could be that **the source driver is not fully-TWAIN compliant**.

Contact the manufacturer to see if an updated TWAIN source driver is available for your device. If not, call Xerox Customer Support.

Virtual memory problems

Some problems in using TextBridge Pro are related to not allocating enough virtual memory in Windows.

Because TextBridge Pro must process large image files during OCR, the program requires a minimum of eight megabytes (8Mb), and preferably 12 to 16Mb, of virtual memory, especially on PCs that only have 8Mb of RAM (random access memory).

Note It is preferable to use **permanent** virtual memory with TextBridge Pro. Permanent virtual memory is a contiguous block of swap space on your hard drive that cannot be used to store files. It cannot be located on a compressed drive. It is acceptable to run TextBridge Pro using **temporary** (non-contiguous) virtual memory. However, the problem with temporary virtual memory is that the disk space it uses can also be used to store files. If you fill up your disk with files, there will not be adequate virtual memory for programs that require it.

Following are a few examples of problems that can be related to virtual memory:

- ◆ error message “General protection fault”
- ◆ error message “Not enough memory”
- ◆ error message “Scanner failure”
- ◆ TextBridge Pro hangs while acquiring the image, or at some other stage of processing (for example, conversion)
- ◆ the scanner stops during a scan

If you have installed TextBridge Pro and experience problems while using it, check and, if necessary, change your virtual memory setting in Windows. Use the following procedure:

1. **Click the Start button on the Windows taskbar.**
2. **Point to Settings, then click Control Panel.**
3. **Double-click the System icon, then click the Performance tab.**
4. **Click the Virtual Memory button to display the current settings. Make sure “Let Windows manage my virtual memory settings (recommended)” is checked.**
5. **Click OK, then click OK or the Exit button. If necessary, restart your computer.**

- ☞ If there is not enough contiguous space to create a large enough permanent swap file (8–16Mb), you will need to defragment your disk. Use a utility such as Norton Utilities' SpeedDisk or Microsoft Disk Defragmenter to perform this operation.

With the appropriate virtual memory set up on your Windows-based PC, you should be able to use TextBridge Pro successfully.

If you still encounter any of the problems listed above, or problems that you cannot otherwise resolve, contact Xerox Customer Support.

CORRECTING GENERAL ERROR CONDITIONS

Occasionally, during TextBridge Pro operation, you can receive an error message. TextBridge Pro error messages are designed to be self-explanatory. Usually, you can simply correct the situation and proceed.

However, if you require more detail about how to correct an error condition, consult this section. Each error message is listed here, in alphabetical order, along with a description of the cause and a recommended course of action.

Note If you encounter an error message not described in this section, and you cannot resolve the problem on your own, contact Xerox Customer Support.

Bad format for specified training data!

You have attempted to load a training (.trn) file, using the Load Training Data command, and something is wrong with the file. Try loading another training data file.

Bad format for specified user dictionary!

You have attempted to load a user dictionary (.txt) file, using the Load User Dictionary command, and something is wrong with the file. Try loading a different user dictionary file.

Cannot find file *filename* (or one of its components). Check to ensure the path and filename are correct and that all required libraries are available.

You are trying to launch TextBridge Pro, or open one of the files in its program group, and the program or file represented by *filename* cannot be found.

Re-install TextBridge Pro from the original CD. Refer to Chapter 2 of this manual for information.

Cannot find this file. Please verify that the correct path and filename are given.

This indicates that a file that appears in the Open dialog box was recently deleted, while the Open dialog file listing itself was not updated. This could happen if, for example, the file you were trying to access was on a network and another network user deleted or moved it.

Try clicking GO! again to access the Open dialog. The file should no longer be listed. If it is listed, and you select it again, and you still get this message, your disk may be corrupted, or you may have network problems.

Cannot open Help file.

The help file named Tb96 has been removed from the TextBridge Pro BIN directory or is damaged.

Re-install TextBridge Pro from the original CD.

Could not orient text

You have set the Orientation setting to Auto, and TextBridge Pro is unable to orient the page.

The page may have a halftone in the upper left corner, may be inverted (white type on black background), or may be blank.

Set Orientation to Portrait, and turn Preview on to view the page image before processing.

If the page has a halftone in the upper left corner, is inverted, or has rotated text, you can try using the manual rotation tools in Preview to orient the page, then try processing it.

Failed to initialize the ICR Server.

You have started TextBridge Pro, and the recognition server, named `ICRSRV32.EXE`, in the TextBridge Pro `BIN` directory, could not be started. It may be corrupted or missing.

Exit TextBridge Pro. Exit all your open applications. Exit Windows: click Start on the Windows taskbar, click Shut Down, and choose Restart the computer? If the error persists, re-install TextBridge Pro from the original CD. Refer to Chapter 2 of this manual for information.

Failed to load OLE 2

You have started TextBridge Pro, a Microsoft OLE (Object Linking and Embedding) 2 compliant application, and one of the OLE 2 files is corrupted or missing. TextBridge Pro provides these files as a standard part of the product, and installs them in the correct location when you install the application.

Re-install TextBridge Pro from the original CD. Refer to Chapter 2 of this manual for information.

Image files may be overwritten! Do you wish to continue?

You are using the Save Page Image – Defer OCR feature, and in the Save Page Image As dialog, you have typed a base name that can cause existing TIFF files in the current directory to be overwritten.

For example, suppose the current directory holds the following files:

```
guide0001.tif  
guide0002.tif
```

If, in the Save Page Image As dialog, you type “guide” as the base name for the new image files to be created, you will get this message.

If you do not want the image files to be overwritten, click No, start the process over again, and type a different base name in the Save Page Image As dialog. Or, if you do want to use the same base name, switch to a different directory.

Input of color/grayscale images is not supported

You are trying to paste a color or grayscale image from the clipboard into TextBridge Pro.

TextBridge Pro can process only binary (black and white) images.

Invalid input format

You have directed TextBridge Pro to open a file that has a valid image format extension, but does not appear to contain valid image information; for example, a file with the .TIF extension not being a valid TIFF file. Although TIFF is an industry-standard, some applications write non-standard variations of the TIFF format. TextBridge Pro can read the following TIFF variations:

TIFF Uncompressed (Intel header)
TIFF CCITT-3 (Intel header)
TIFF CCITT-4 (Intel header)
TIFF Uncompressed (Motorola header)
TIFF CCITT-3 (Motorola header)
TIFF CCITT-4 (Motorola header)
TIFF (Intel FAXability header)

TextBridge Pro can also read PCX, DCX, and BMP (Windows bitmap) files in binary (black and white) format.

Language not loaded/installed

In Preferences, you have selected a recognition language that is not loaded on your system. For example, the file could have been deleted after TextBridge Pro was started. Thus, it would appear in the Language list box in the Job Preferences dialog, but would not actually be available for TextBridge Pro to load.

Re-install TextBridge Pro from the original CD, selecting all languages that you intend to use. Refer to Chapter 2 of this manual for information.

Not enough disk space on *drivename* to continue the operation. Switch (Alt+Tab) out of TextBridge to delete unnecessary files. Switch back to TextBridge, and click Retry to continue, or click Cancel to end the operation.

You are using the Save Page Image – Defer OCR feature, and have specified a disk drive to which files are to be written, and the disk is out of space.

Start Windows Explorer or a DOS prompt, and clean up the disk to make room for the TIFF files to be saved.

Then switch back to TextBridge Pro, and click Retry.

If you cannot clean up room on the drive, click Cancel instead, restart the process, and choose a different drive with adequate space.

Not enough memory to start ICR engine.

TextBridge Pro requires that your PC be configured with at least 8Mb of RAM and a minimum of 8Mb of virtual memory.

Check to see that your PC meets these requirements.

Resolution of image is outside of supported range!

TextBridge Pro can process images that are 72 to 900 dots per inch. If you scan a page, or queue up an image file, at a resolution outside this range, you will get this error.

For best OCR results, provide TextBridge Pro with images only in the 200 to 400 dots per inch range.

Scanner not operational

A number of conditions can cause this problem.

Make sure you have followed the manufacturer's recommended instructions for installing the scanner on your PC, including installing the system-level driver.

Make sure you have followed all the scanner installation steps described in Chapter 2 of this manual.

If you still get this message, your scanner may be powered off. Turn it on and try again.

This can also happen if TextBridge Pro is running and your scanner is powered off and back on, or otherwise loses power for a brief moment. Try exiting from TextBridge Pro and starting it again.

Otherwise, your scanner may be improperly connected. Power down your PC, check all connections. Then try again.

Server canceled processing on its own initiative; page may be too complex for selected mode.

You are trying to process a complex page with halftones, or which is improperly oriented, without having specified the correct preferences for TextBridge Pro to operate.

Specify Auto for page orientation, and One Column with Photos (or Auto), and try again.

If you still encounter problems with a particular document, contact Xerox Customer Support.

The file format is not supported

You have queued up an image file that contains color or grayscale information.

TextBridge Pro can process only binary (black and white) images.

TextBridge is already running. Only one copy of TextBridge can run at a time.

This message is generated when you already have the TextBridge Pro main application running, and you try to start TextBridge OCR (Instant Access OCR) from within another application.

If you want to run Instant Access OCR, close the TextBridge Pro main application first.

Too many different image resolutions; unable to continue processing this document.

TextBridge Pro is capable of processing on-line or scanned images with resolutions ranging from 72 to 900 dots per inch. TextBridge Pro can even process multiple images with different resolutions.

However, if you get this message, TextBridge Pro has reached its limit as to the number of different resolutions it can process.

If TextBridge Pro is processing from the Open dialog, it will ask if you want to process remaining files in the queue. If you click Yes, TextBridge Pro will skip the page at which the error was originated, and continue with the next page. If you click No, TextBridge Pro will end the job.

In general, it is best to process images of the same resolution during a job. However, if for example, you have several intermixed normal and fine mode fax images, TextBridge Pro should be able to process them as a batch.



SAMPLE DOCUMENTS

The tutorials sessions in Chapter 3 of this manual refer to on-line sample documents. These sample documents are designed to be used with the tutorial sessions, and to highlight some of the more important features of TextBridge Pro.

When you install TextBridge Pro (refer to Chapter 2), the default installation directory is:

C:\Program Files\TextBridge Pro 96

Several subdirectories are placed beneath this path, one of which is:

C:\Program Files\TextBridge Pro 96\tiffs

This subdirectory contains the sample documents stored in TIFF format. Each is a one-page document. They are named:



Markplan
Zonepic
Plexis
Resume
3col

Beginning on the next page, this appendix describes and provides pictures of the sample documents.

- ☞ The documents are described in the order in which they are used in the tutorial sessions in Chapter 3.

MARKPLAN.TIF

Tutorial Session 1 in Chapter 3 uses a typical one-column office document named:

Markplan

The document uses serif fonts in several different sizes and styles, and includes bullet (•) characters, all of which TextBridge Pro can recognize and output.

Figure B-1 shows a scaled-down picture of markplan.tif.

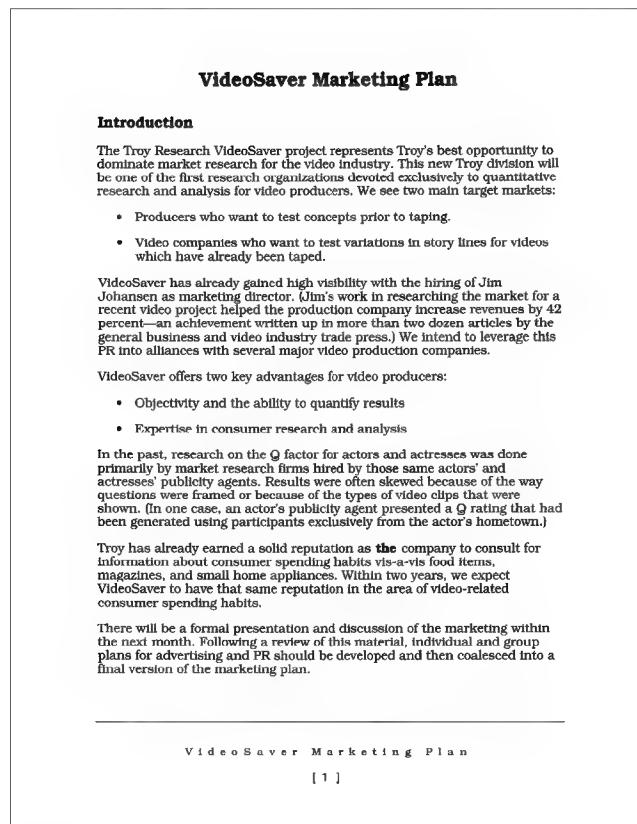


Figure B-1. Sample document markplan.tif

ZONEPIC.TIF

Tutorial Session 2 in Chapter 3 uses a multiple-column newsletter-style document:

Zonepic

The document is designed to illustrate TextBridge Pro's manual zoning features, with which you can identify specific areas (text and graphics) of pages to capture.

Figure B-2 shows a scaled-down picture of *zonepic.tif*.

Optical Character Recognition Comes of Age

With faster computers, higher resolution scanners, and increasingly sophisticated applications software, text scanning, referred to as OCR (optical character recognition), has finally come of age.

More and more companies are finding it increasingly cost effective to integrate text scanning equipment into their office workflow.

"It's a very effective way to convert paper documents back into electronic form, where we can edit, reformat, and republish it," said Jeffrey Small, Publications Director at Ziff, Ziff, and Angell, Attorneys at Law.

"Rather than have a secretary retype a document, we can scan it in about one-third the time, and let our secretaries apply their skills in editing and reformatting," said Mr. Small.

Getting Lost in Technology

When's the last time you visited a personal computer trade show?

If it has been a few years, you may be surprised at the advances that computer technology has made.

The line between powerful mini-computers and desktop micro-computers has become increasingly blurred. The noviate would marvel at the amount of computer power he can place on his desktop for a relatively little amount of money (when compared to mini-computer prices of a few years ago).

Equally, the number of variety of software applications that are available for the desktop are equally staggering. Applications for CAD, architectural drawing,

precision illustration, desktop publishing, word processing, text and image scanning, and more are available at relatively little cost for the productivity gains they can offer.

Modularity and standards are key feature of today's desktop computer systems. These enable savvy buyers to put together their own systems geared toward accomplishing the tasks they most often perform.

Color is entering the desktop world in a big way. After all, color is a part of our everyday lives. Why not make your publications and illustrations be in color as well. Color monitors and color laser printers are continuing to come down in price.

If you want to get lost in technology for just one day, visit the world expo.

M A R K E T U P D A T E

Memory costs and availability improve

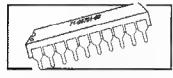
If you are looking to upgrade your computer's memory, now may be as good a time as any. Recent developments in the market have made availability of 256K and 512K chips at an all-time high, and thus prices are steadily decreasing.

"We can get all the chips we need these days," said John Ciepluch, director of manufacturing at Big Memory Maker, Inc. "As a result, our manufacturing capabilities are currently being used at full capacity."

This ready availability has translated into a boon for the consumer. Several area retailers have lowered their prices on in-stock memory cards to clean out their inventory and make way for the influx of new stock.

"This is a double-edged sword," said Bill Bbob, sales manager at Customer Computer in downtown Hoboken. "If we can't move this inventory, then industry is going to further lower prices and we will have to follow suit. The only beneficiary will be the buying public."

Lowered margins could cause some of the smaller independent dealers to go out of business, Mr. Bbob offered.



"These types of fluctuations worry me," said Mr. Bbob. "It is too much pressure on me."

Figure B-2. Sample document *zonepic.tif*

PLEXIS.TIF

Tutorial Sessions 3 and 6 in Chapter 3 both use a fax-quality document named:

Plexis

The degraded image quality of fax documents is ideal to illustrate the interactive training feature of TextBridge Pro.

Note that `plexis.tif` is also used in Tutorial Session 6 to illustrate TextBridge Pro's in-place proofing capabilities.

Figure B-3 shows a scaled-down picture of `plexis.tif`.

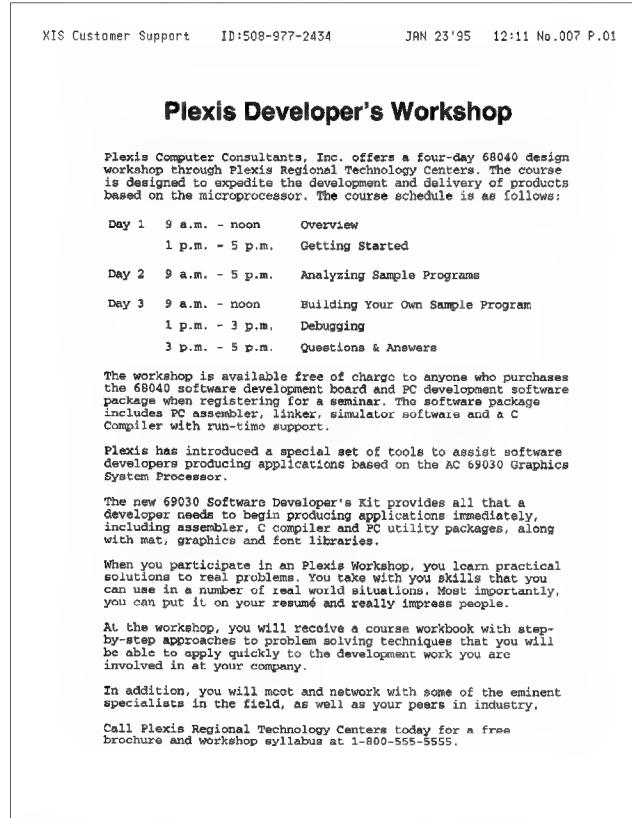


Figure B-3. *Sample document plexis.tif*

RESUME.TIF

Tutorial Session 4 in Chapter 3 uses a fictitious résumé named:

Resume

The document is typical of the type of data you might like to pour directly into your word processor for immediate editing purposes. It is designed to illustrate TextBridge Pro's Instant Access OCR feature.

Figure B-4 shows a scaled-down picture of *resume.tif*.

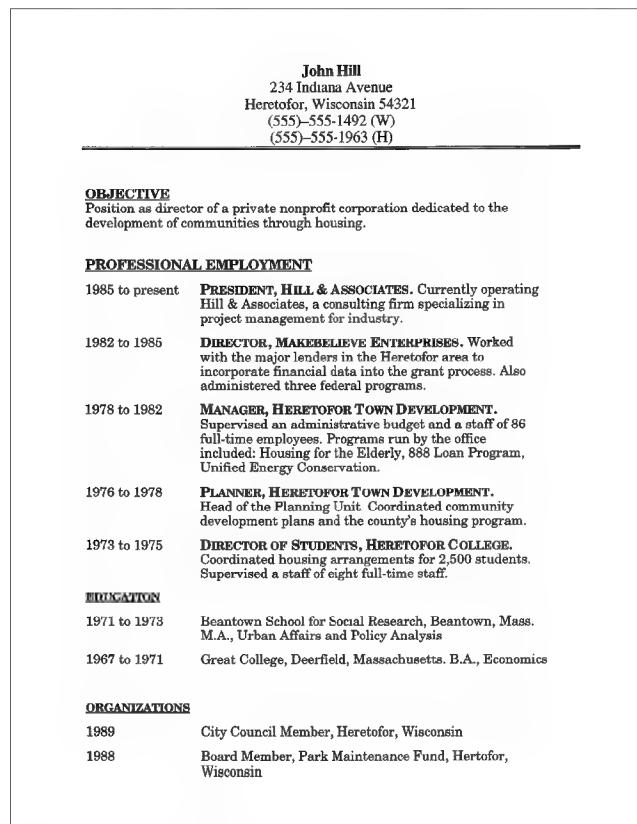


Figure B-4. Sample document *resume.tif*

3COL.TIF

Session 5 in Chapter 3 uses a three-column document with a picture in the middle column. It is named:

3col

The document is designed to illustrate TextBridge Pro's powerful recombination capabilities.

Figure B-5 shows a scaled-down picture of 3col.tif.



Figure B-5. Sample document 3col.tif



INDEX

- A** Accept button, 3–13
AccuPage, 2–3, 2–8
 installing and testing the driver, 2–13

- C** Cell tables, 3–18
Clipboard support, 1–3
Commands
 - Save Proofing Data, 3–20
 - TextBridge OCR, 3–15
 - TextBridge Proofreader, 3–21`config.sys` file, 2–4
Customer support
 - electronic registration number, A–2
 - phone numbers, A–2
 - when to call, A–2

- D** De-installing TextBridge Pro, 2–21
Dialogs
 - Open, 3–4, 3–6, 3–8, 3–12, 3–16, 3–17, 3–20
 - Save As, 3–6, 3–11, 3–13, 3–17, 20
 - TextBridge Instant Access OCR Registration, 3–15
 - TextBridge Proofreader, 3–21
Document recomposition, 3–17
 - displaying the recomposed document in your word processor, 3–18
 - features and limitations, 3–18
 - with Smart Zones™, 3–19
Document recomposition setting, 3–17

Documentation, 1–2
Drag-and-drop, 1–3

- E** Electronic documentation, 1–2
 Error messages, A–1, 17
 Expanded memory drivers, 2–2

- F** Fax modems, 2–5
 Folder and icons for TextBridge Pro, 2–9
 Folder on Programs menu for TextBridge Pro, 2–9

- G** Getting Started guide, organization of, 1–1
 Go button, 3–4, 3–6, 3–8, 3–11, 3–12, 3–16, 3–17, 3–20
 Grayscale, A–15

- H** Hand scanners, 2–4
 Help, 1–2
 HP AccuPage 2.0, 2–3, 2–8
 installing and testing, 2–12
 HP ScanJet, 2–8

- I** Icons for TextBridge Pro, 2–9
 Image Zone button, 3–10
 Image zone, creating, 3–10
 Instant Access OCR™, 3–14
 exiting, 3–16
 formats recognized text is converted to, 3–16
 in StartUp folder, 3–14
 placed in StartUp folder at installation, 2–9
 removing from StartUp folder, 2–23
 Instant Access OCR Registration dialog, 3–15
 Interactive training mode, 3–13

Interactive training, 3–11
ISIS, 2–3, 2–8
 installing and testing the driver, 2–14
 scanner problems, A–3

L Language packs, 1–4
 installing, 2–6
 size, 1–5
Launching TextBridge Pro, 3–2

M Main toolbar, 3–3
Main window, 1–3, 3–2, 3–15
 in interactive training mode, 3–13
 in preview mode, 3–9
 view area, 3–3, 3–12
Memory requirements, 1–5, 2–2
Menu bar, 3–3
Microprocessor needed to run TextBridge Pro, 1–5
Microsoft OLE 2.0, 1–3
Monitors, 1–5

O OCR, what it stands for, 1–1
On-line electronic documentation, 1–2
On-line Help, 1–2
On-line release notes, 1–2
Open dialog, 3–4, 3–6, 3–8, 3–12, 3–16, 3–17, 3–20
Optical character recognition (OCR), 1–1
Original document layout setting, 3–17
Original document quality setting, 3–12

P Page image, 3–12
Page images, 3–4
Preferences panel, 3–3, 3–8, 3–12, 3–17
Preview button, 3–7

Preview mode, 3–9
Preview toolbar, 3–3
Preview tools, 3–7
Publications about TextBridge Pro, 1–2

Q Quick Card, 1–2

R RAM disks, 2–2
Read Image from File button, 3–4, 3–6, 3–7, 3–12, 3–16, 3–17, 3–20
Registration card, 1–4
Registration, electronic, 2–10, A–2
Registry settings, A–7, A–10, A–11, A–14
Release notes, 1–2
Requirements, 1–5
Rich Text Format (RTF), 3–16
Running TextBridge Pro, 3–2

S Sample documents, 3–4, B–1
 directory where stored, 3–5
Save As dialog, 3–6, 3–7, 3–11, 3–13, 3–17, 3–20
Save Proofing Data command, 3–20
Scan Test window, 2–13
Scanner, installing and testing, 2–3
Scanner driver
 identifying the type, 2–8
 testing the installation, 2–12
Scanner installation steps, 2–4
Scanners
 ISIS, troubleshooting problems with, A–3
 supported by TextBridge Pro, 2–3
 TWAIN, troubleshooting problems with, A–5
Shortcut to Tb96 icon, 3–2
Smart Zones™, 3–19
Software registration card, 1–4

Starting TextBridge Pro, 3–2
StartUp folder on Programs menu, 2–9, 2–23
Status bar, 3–3
Stitching, auto, 2–4
Suspect words, 3–12, 3–20
 colors for proofing levels, 3–21
Swap file, 1–5
System requirements, 1–5

T Tb96 icon, 3–2
Text formats, 1–3
Text output format, selecting, 3–7, 3–11, 3–13, 3–17, 3–20
Text Zone button, 3–9
Text zone, creating, 3–9
TextBridge Instant Access OCR™, 1–3
TextBridge OCR command, 3–15
TextBridge Pro
 automatic operation, 3–6
 capturing parts of a document with, 3–7
 clipboard support, 1–3
 color or grayscale, problems with, A–15
 customer support numbers, A–2
 customer support, A–2
 de-installation, 2–21
 default installation directory, 2–7
 disk space requirements, 1–5
 document recomposition, 3–17
 electronic registration number, A–2
 electronic registration, 2–10
 embedded in other applications, 1–3
 error messages, A–1, A–17
 fax images with, 2–5
 features, 1–1
 folder on Programs menu, 2–9, 3–2
 icon, 3–2

TextBridge Pro (cont.)

- image file, procedure for opening, 3–4
- in-place proofing, 3–20
- In-Place Proofreader™, 2–17
- installation, 2–1
- installing and testing software, 2–5
- Instant Access OCR Registration dialog, 3–15
- Instant Access OCR™, 3–14
- interactive training mode, 3–11, 3–13
- inverted images from a TWAIN device, A–11
- ISIS scanner problems, A–3
- items that can affect performance, 2–2
- language packs, 1–4, 1–5, 2–6
- main application, 1–2
- main toolbar, 3–3
- main window, 1–3, 3–2, 3–15
- memory requirements, 2–2
- menu bar, 3–3
- microprocessors supported, 1–5
- OLE 2.0 support, 1–3
- on-line electronic documentation, 1–2
- on-line Help, 1–2
- Open dialog, 3–4, 3–6, 3–8, 3–12, 3–16, 3–17, 3–20
- optimizing performance, 2–1
- owner registration, 1–4
- preferences panel, 3–3
- preview mode, 3–9
- preview toolbar, 3–3
- programs, 3–2
- Quick Card, 1–2
- registry settings, A–7, A–10, A–11, A–14
- related publications, 1–2
- release notes, 1–2
- requirements to run, 1–5
- resolution range it supports, A–14
- running from within another application, 3–14

TextBridge Pro (cont.)

- sample documents, 3–4, B–1
- Save As dialog, 3–7, 3–11, 3–13, 3–17, 3–20
- scanner driver, identifying the type, 2–8
- scanner installation steps, 2–4
- shortcut to Tb96 icon, 3–2
- starting, 3–2
- status bar, 3–3
- TIFF formats supported, A–20
- training toolbar, 3–3
- troubleshooting, 2–8, A–1
- tutorials for using, 3–1
- TWAIN scanner problems, A–5
- uninstalling, 2–21
- user interface tour, 3–2
- view area, 3–3
- virtual memory, setting up, A–15
- what it includes, 1–4
- zones, creating, 3–9

TextBridge Proofreader

- command, 3–21
- dialog, 3–21
- Image window, 3–23
- installing in Word 6.0a (or higher), 2–18
- installing in WordPerfect 6.1 (or higher), 2–19
- using, 3–20
- what colors of words mean, 3–21
- word processors limited to, 3–20
- uninstalling, 2–21

TIFF, 3–4, A–20

Train OCR button, 3–12

Training data

- prompt to save, 3–13
- reusing, 3–11

Training toolbar, 3–3, 3–12

Troubleshooting, 1–1, 2–8, A–1
 ISIS scanner problems, A–3
 TWAIN scanner problems, A–5
 virtual memory problems, A–15
TSR programs, 2–2
Tutorials, 3–1
 sample documents, 3–4
 sample documents, B–1
TWAIN, 2–3, 2–4, 2–8
 adjusting the brightness range for the device, A–9
 color or grayscale images, A–15
 correcting inverted images sent to TextBridge Pro, A–11
 files needed to use, A–5
 installing and testing the driver, 2–16
 native user interface, A–7
 out of memory errors, A–12
 resolutions to scan with, A–14
 scanner problems, A–5
 troubleshooting problems setting up the scanner, A–6

U Uninstalling TextBridge Pro, 2–21

V View area, 3–3, 3–12
Virtual memory, 1–5, 2–1, A–15

W Windows 95, 1–5
Windows ASCII, 3–16
Windows clipboard, recognized data on, 3–16
Windows NT, 1–5
Windows StartUp folder
 Instant Access OCR™ in, 3–14
Windows, 1–5
Word processor format, selecting conversion to, 3–7, 3–11, 3–13,
 3–17, 3–20

X Xerox Customer Support phone numbers, A–2

Z Zone, 3–9, 3–10
Zoom In button, 3–8